

Fig 1

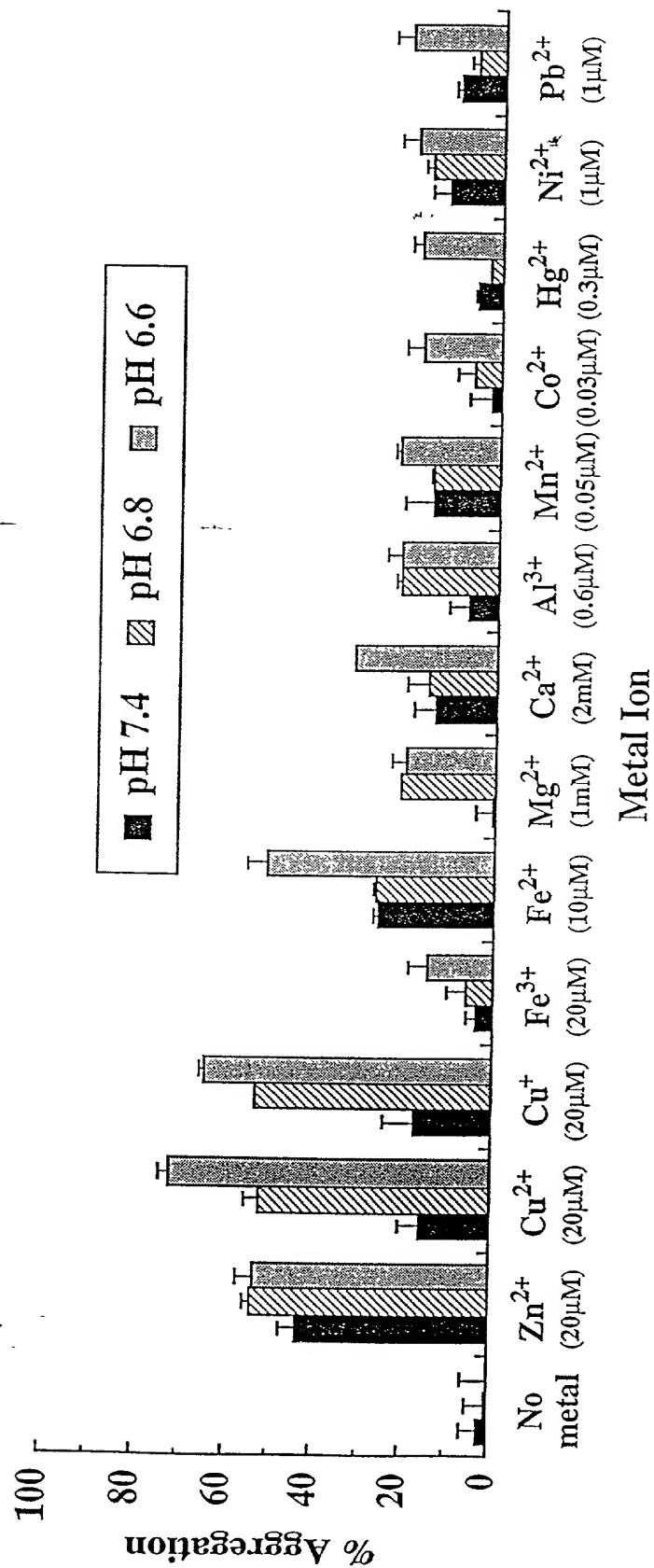


Fig 2A

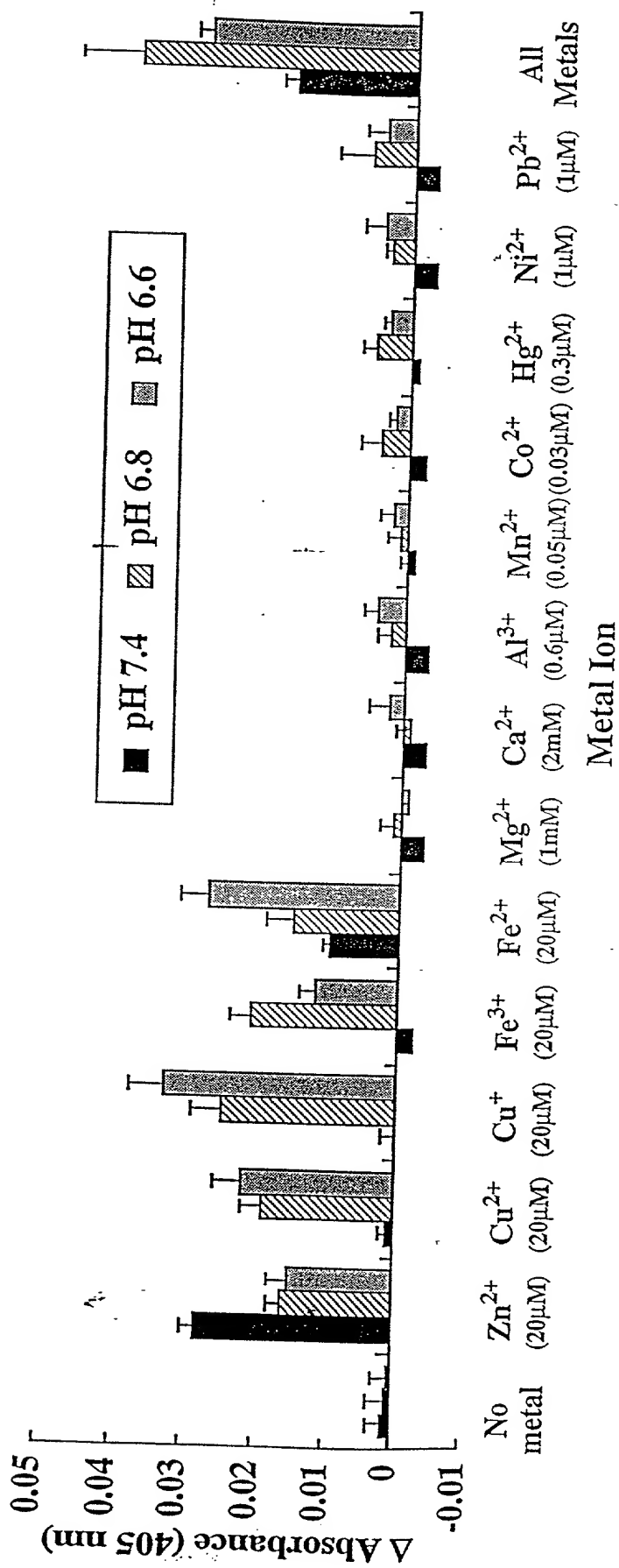


Fig. 2B

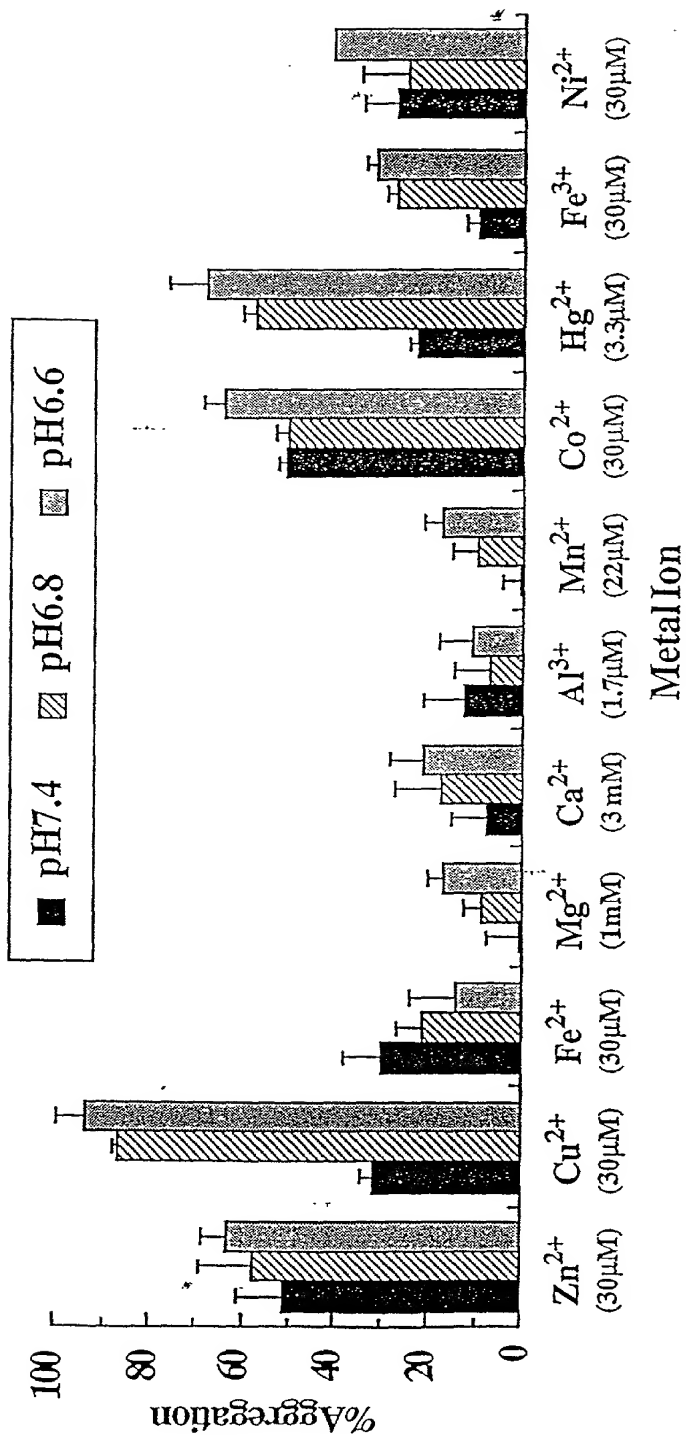
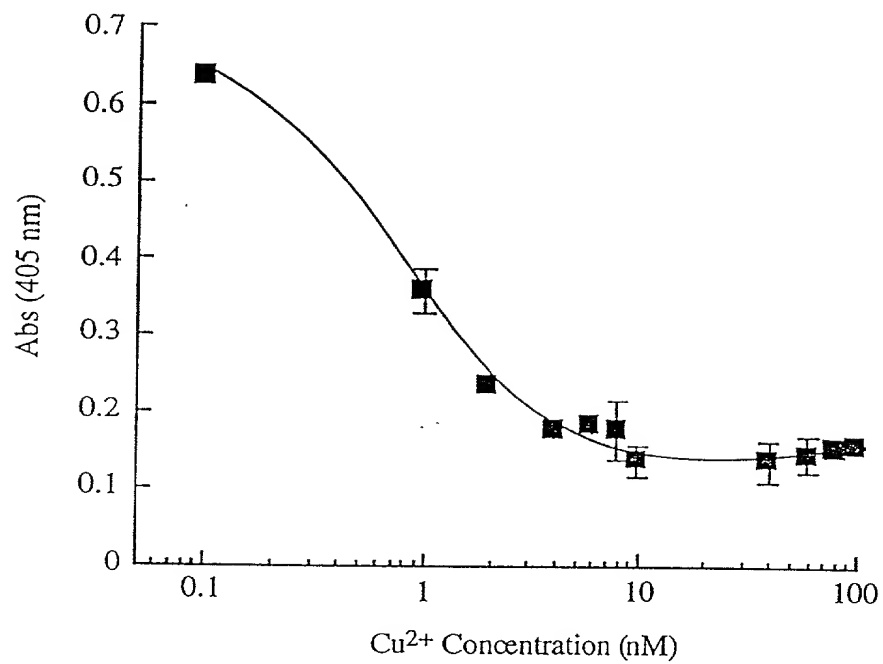


Fig 2C



F.g. 3

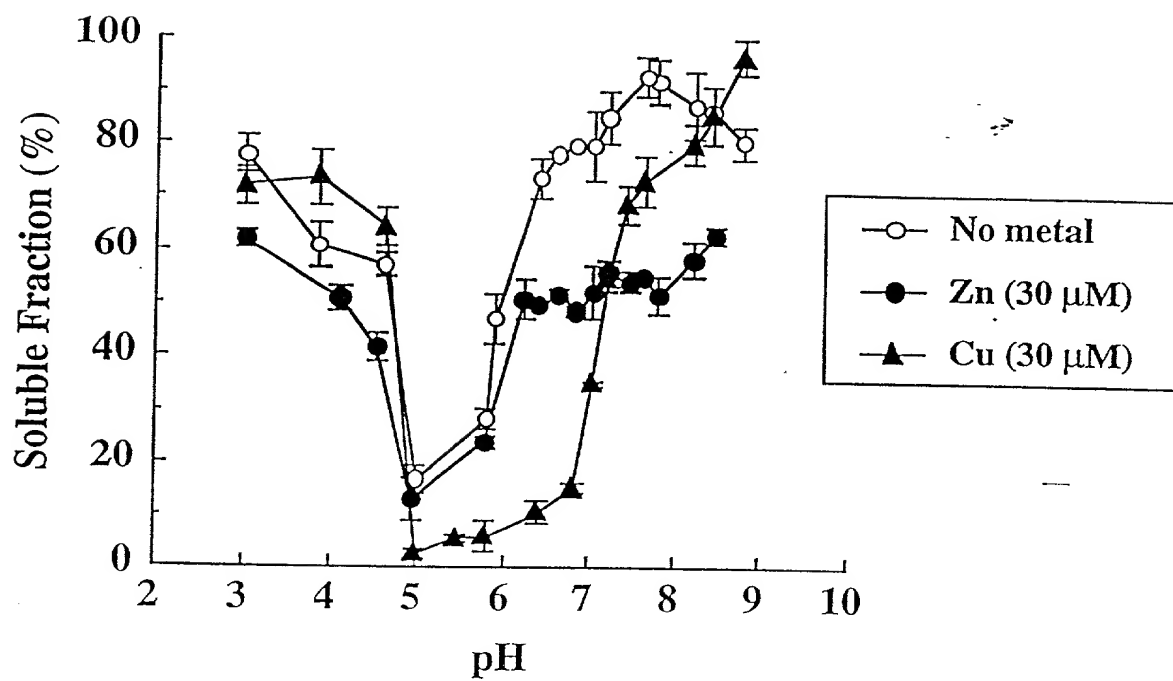


Fig. 4 A

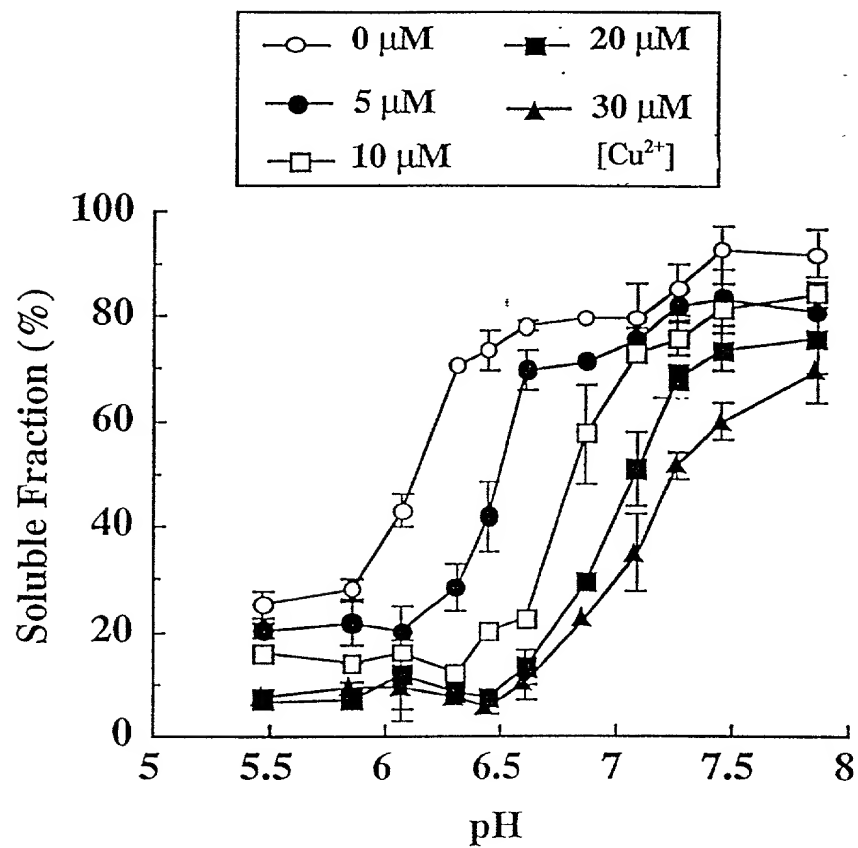


Fig 4 B.

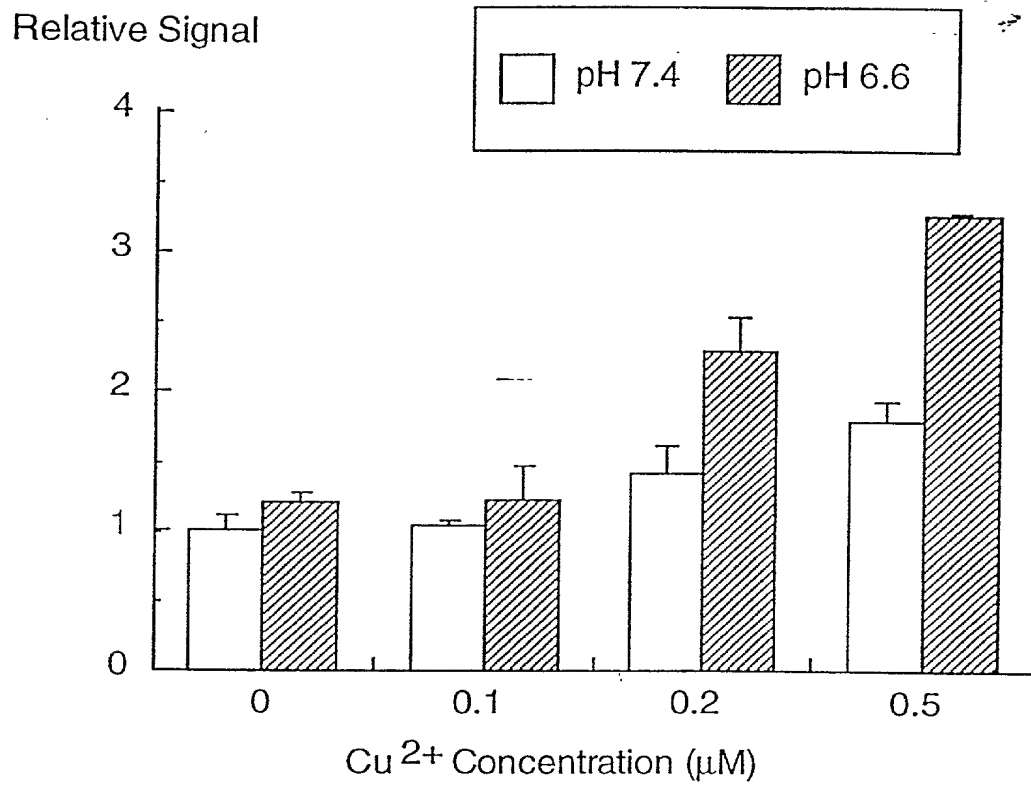


Fig. 4 C

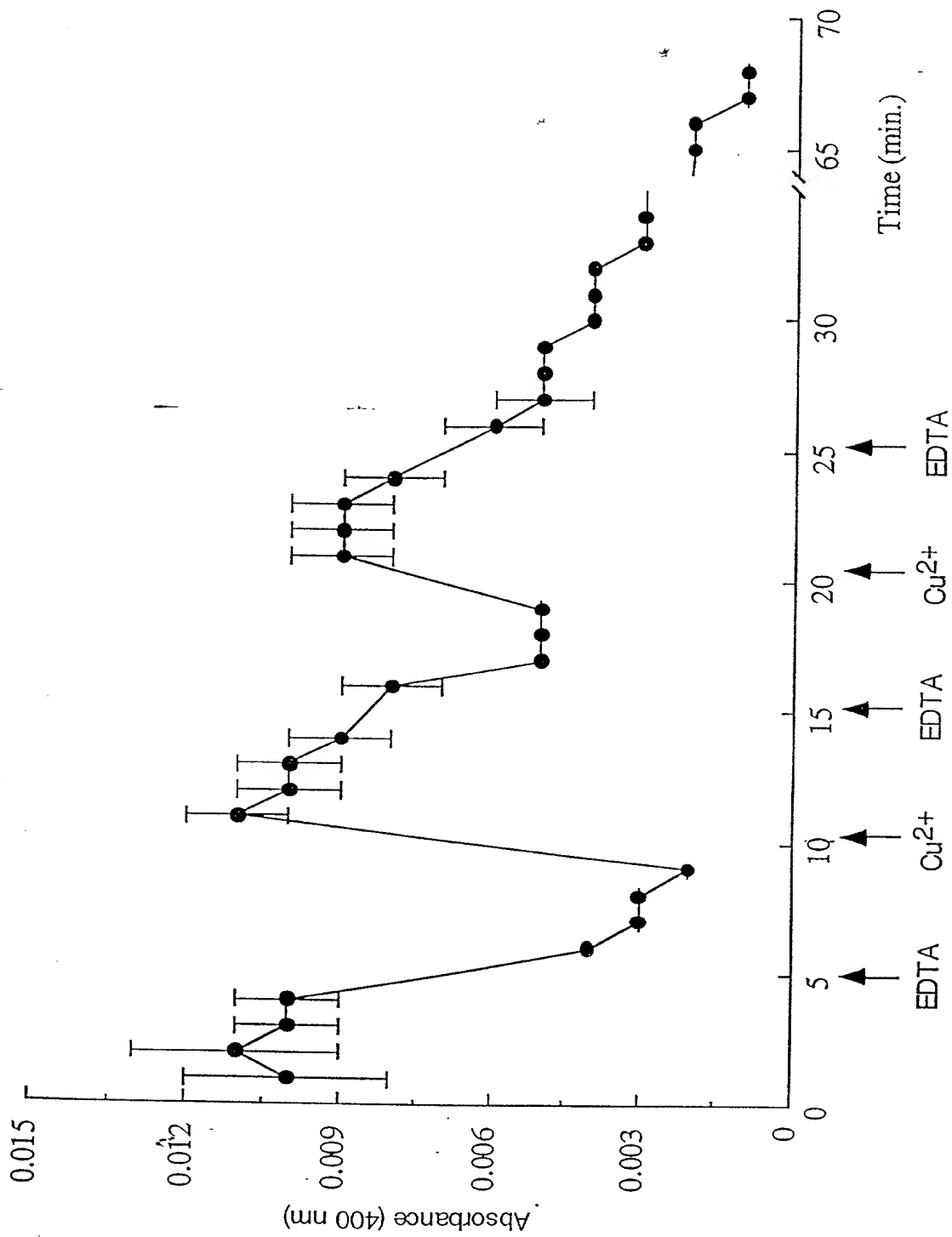


Fig. 5A

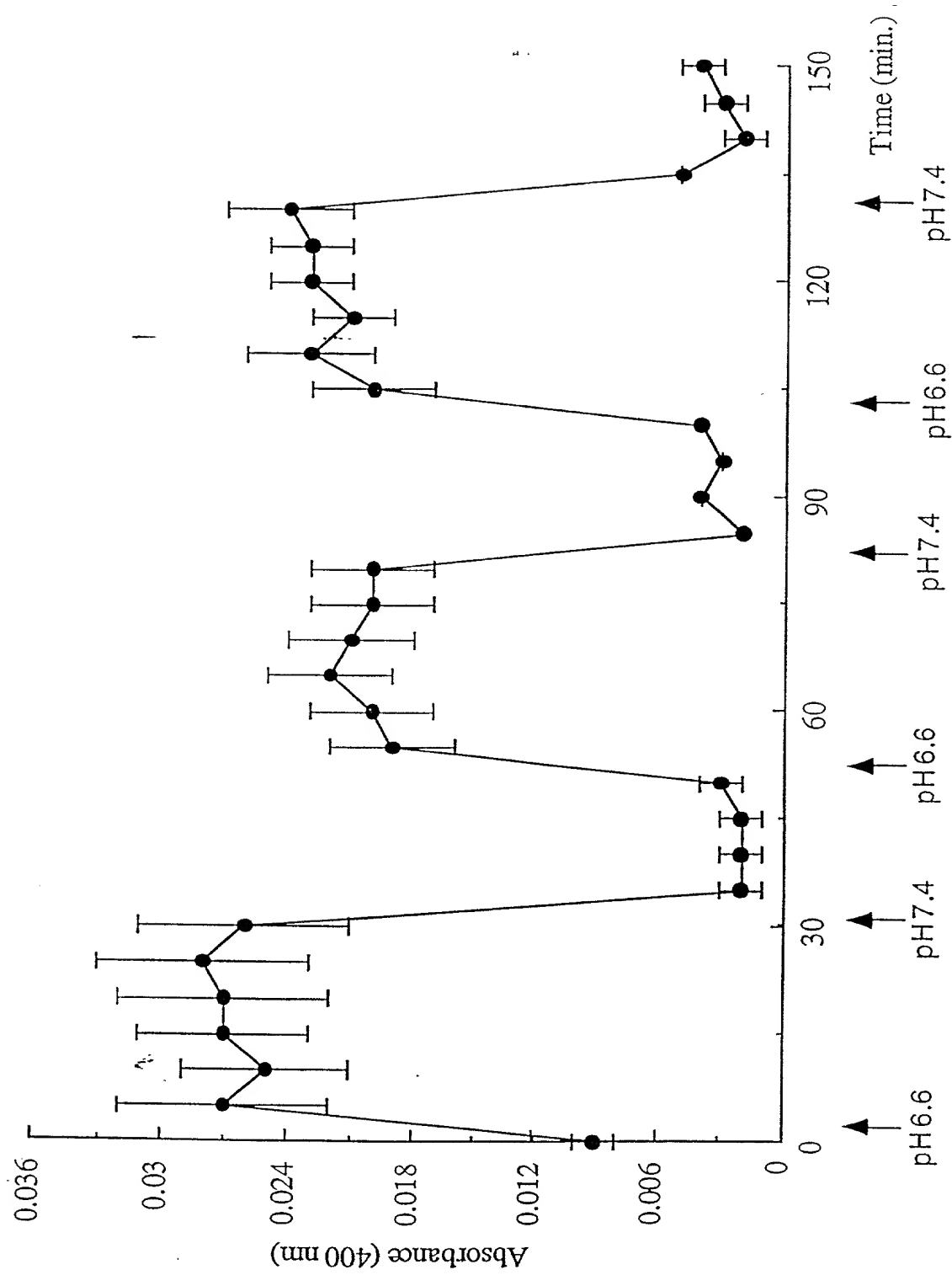


Fig. 5B

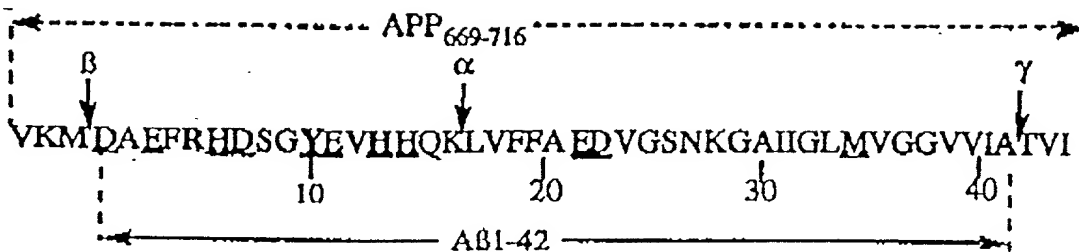


Fig 6

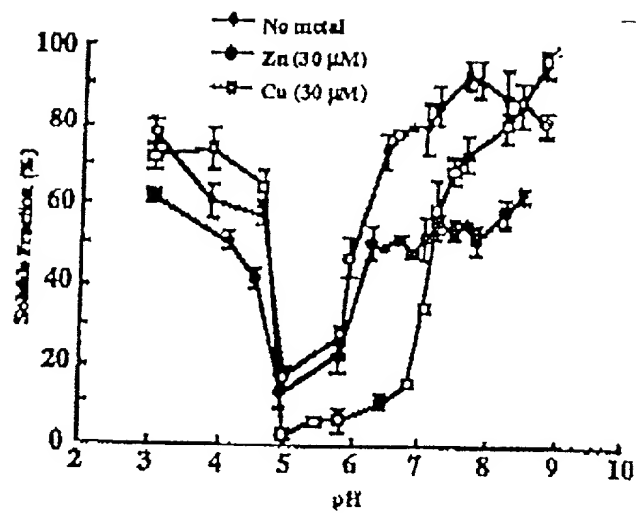


Fig. 7

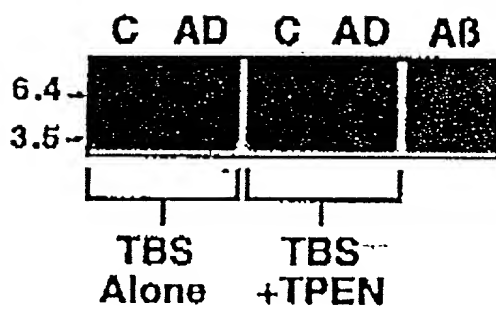


Fig. 8

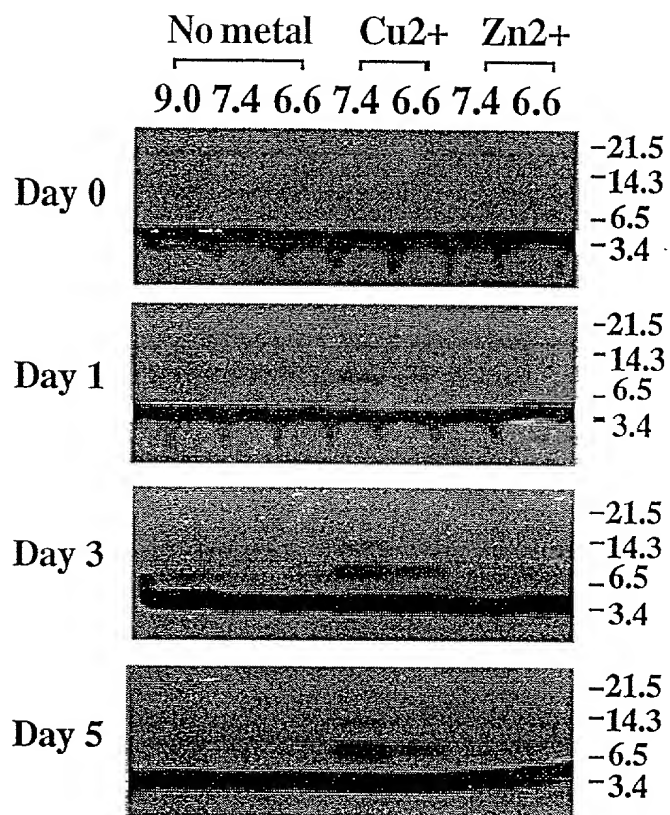
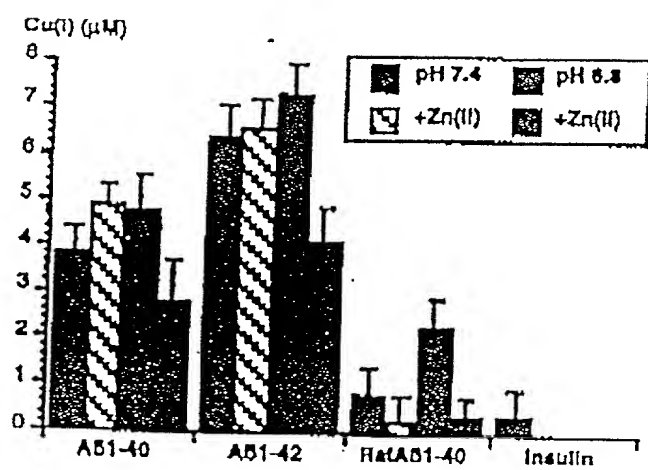


Fig. 9



*Fig. 10

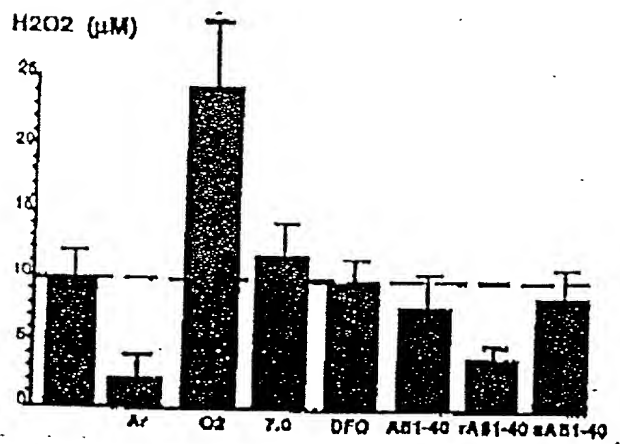


Fig. 11

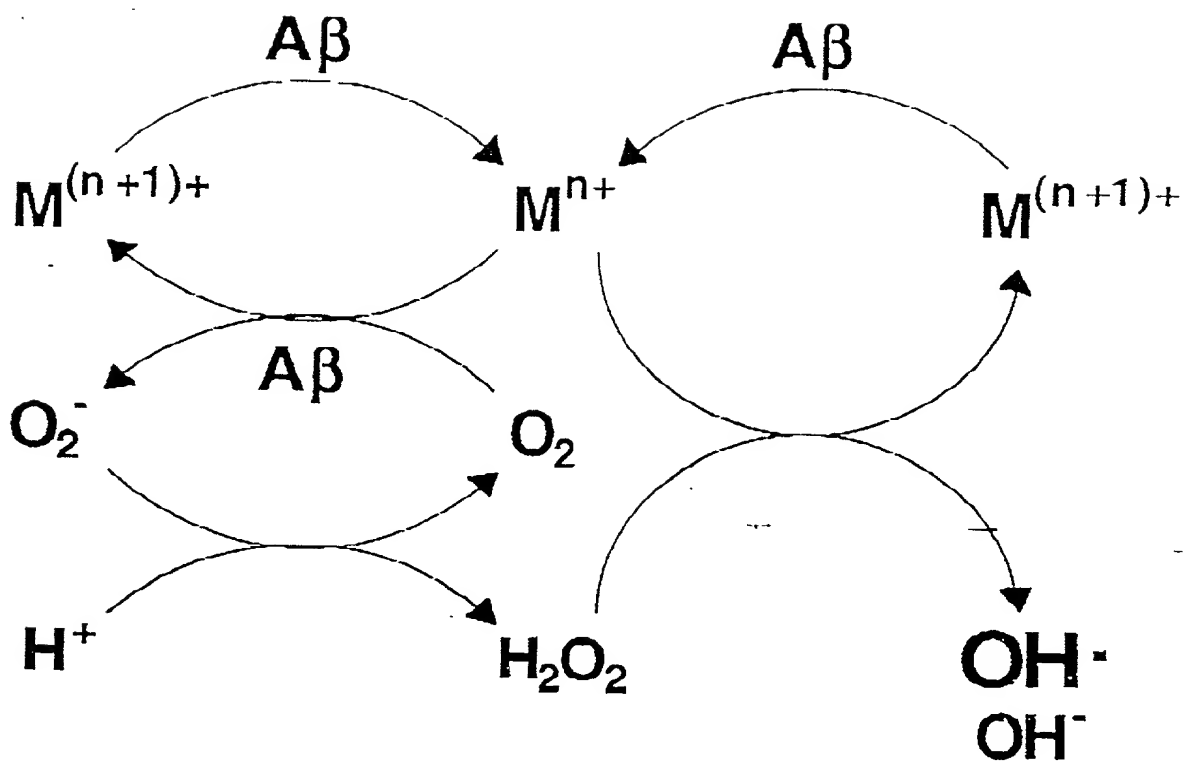


Fig. 12

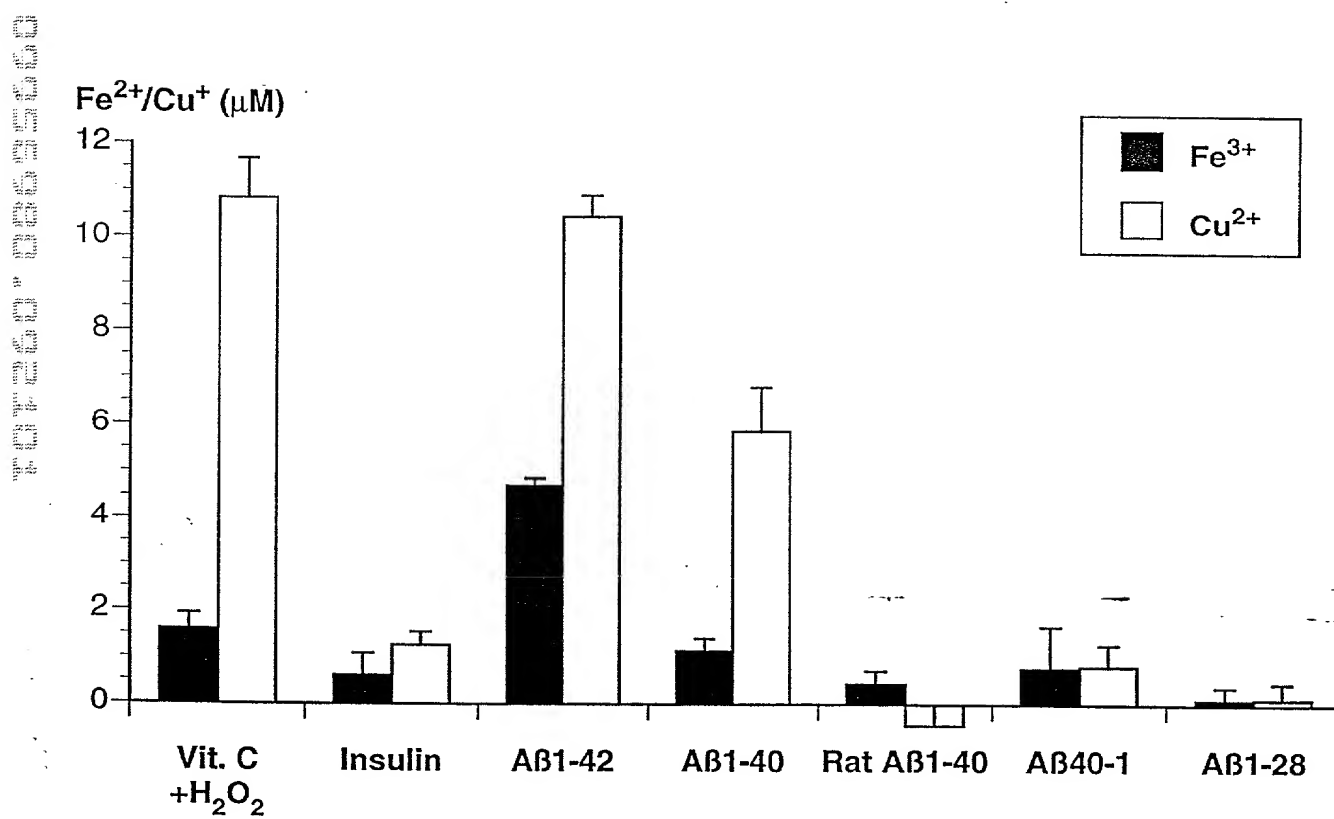


Fig. 13A

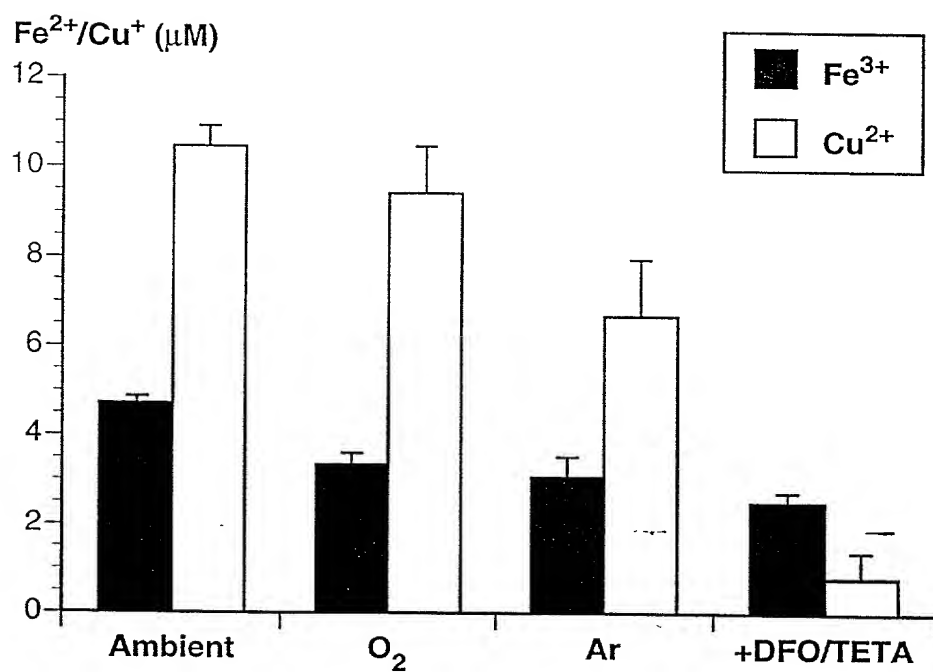


Fig. 13B

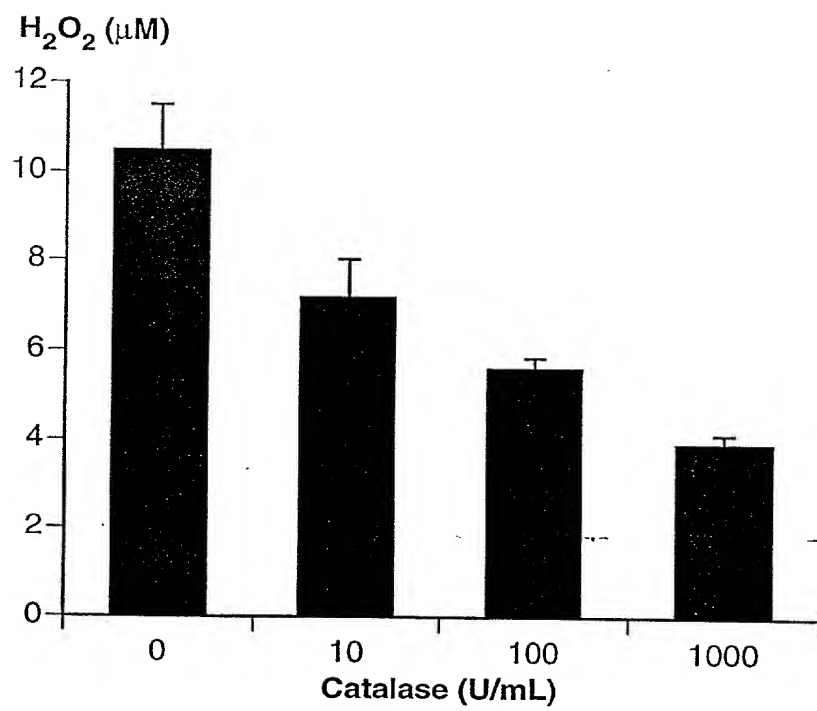


Fig. 14A

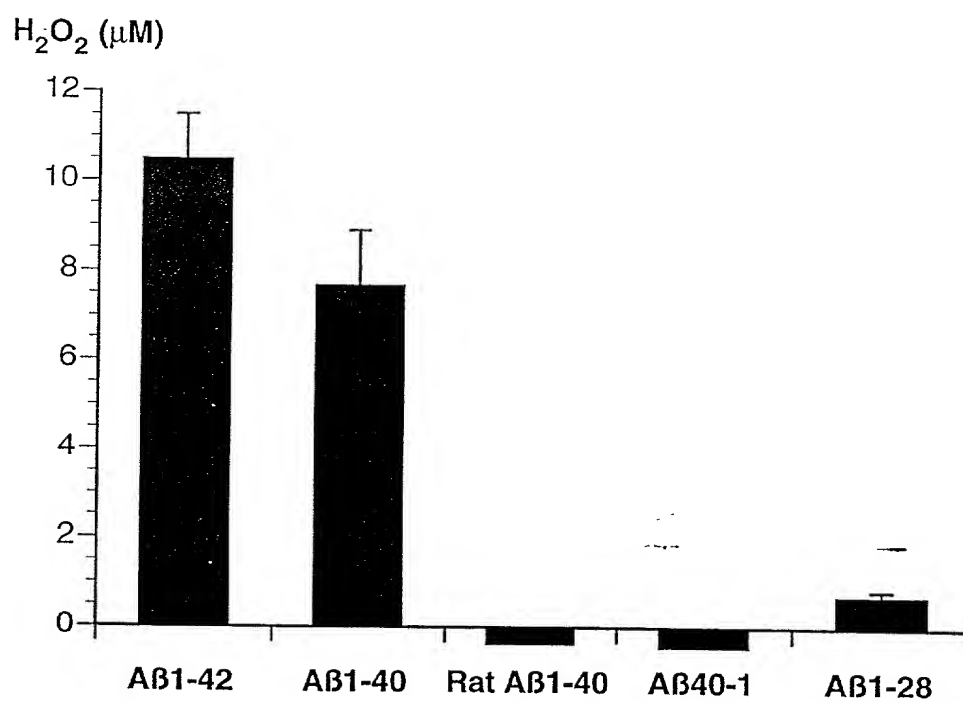


Fig. 14B

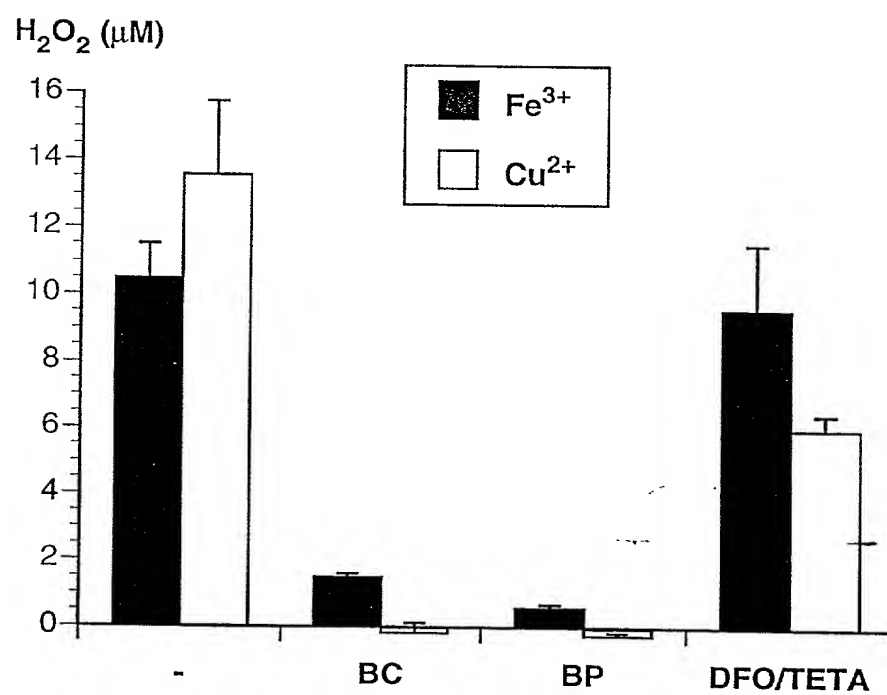


Fig. 14C

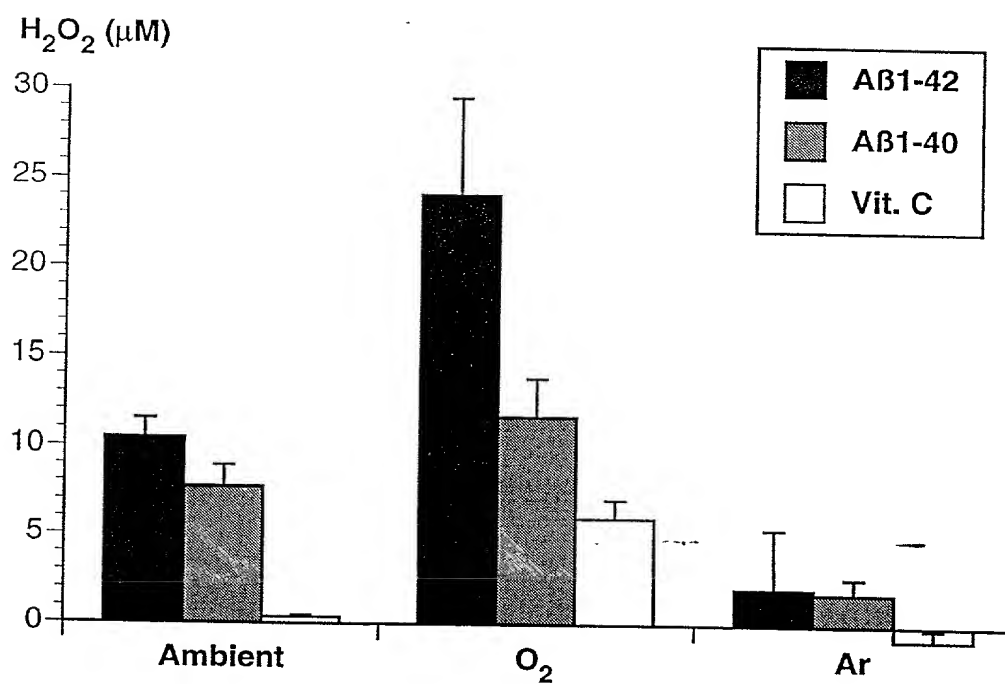


Fig. 14D

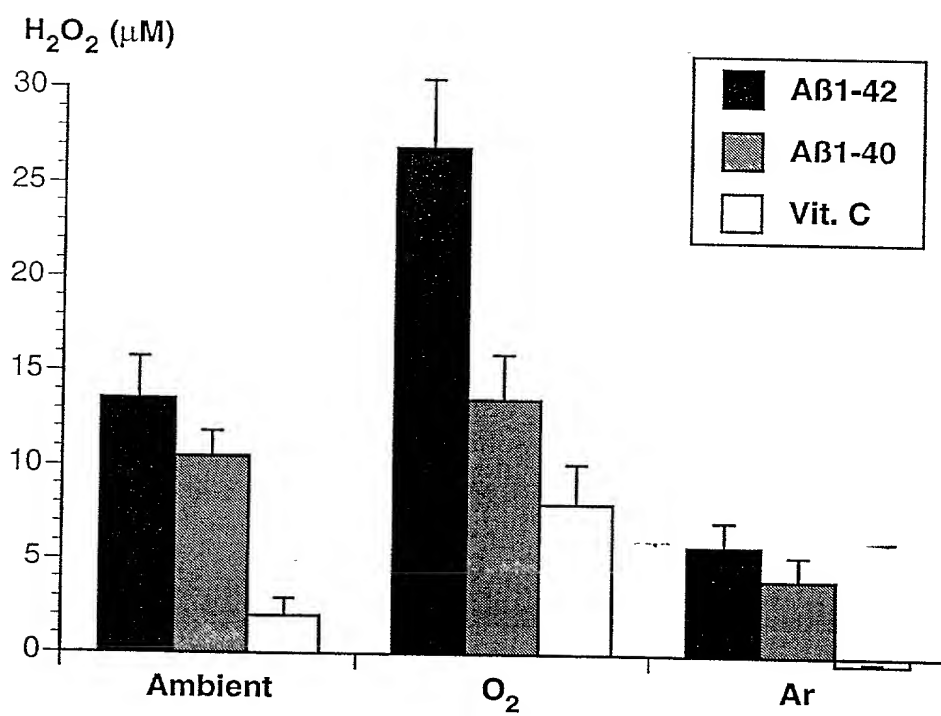


Fig. 14E

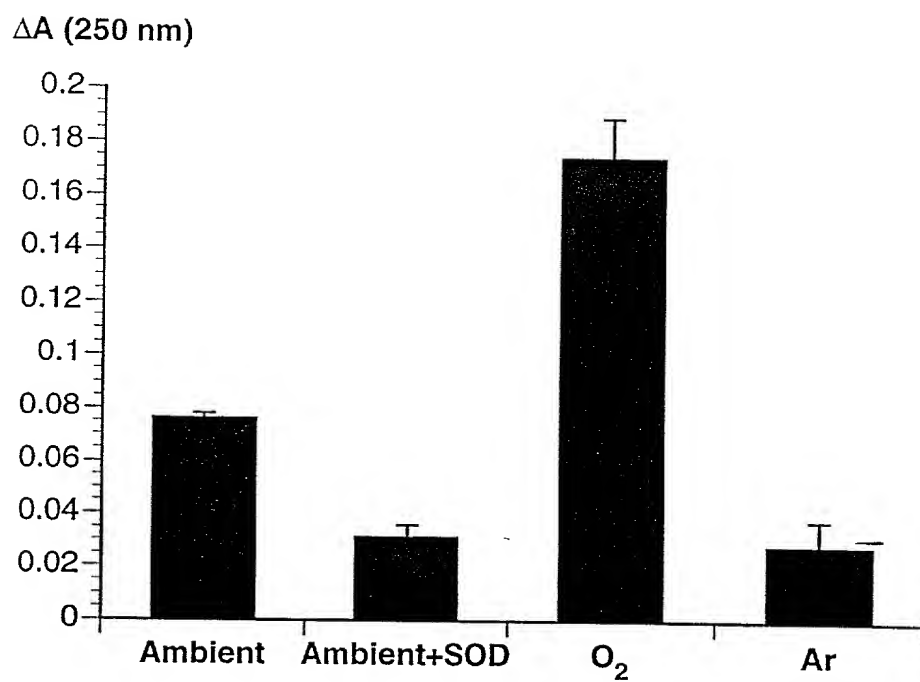


Fig. 15A

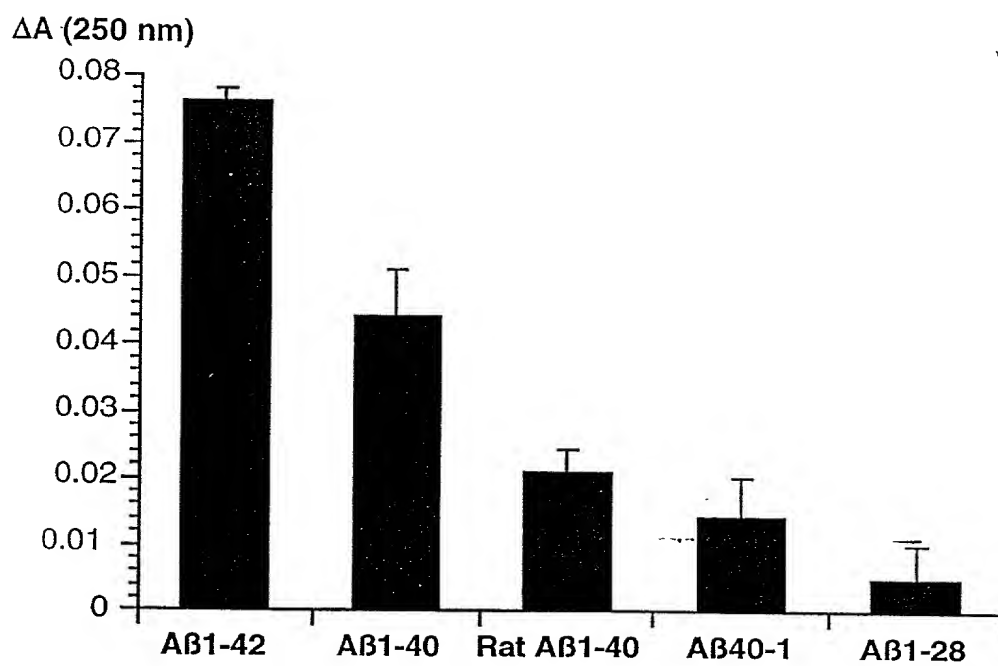


Fig. 15B

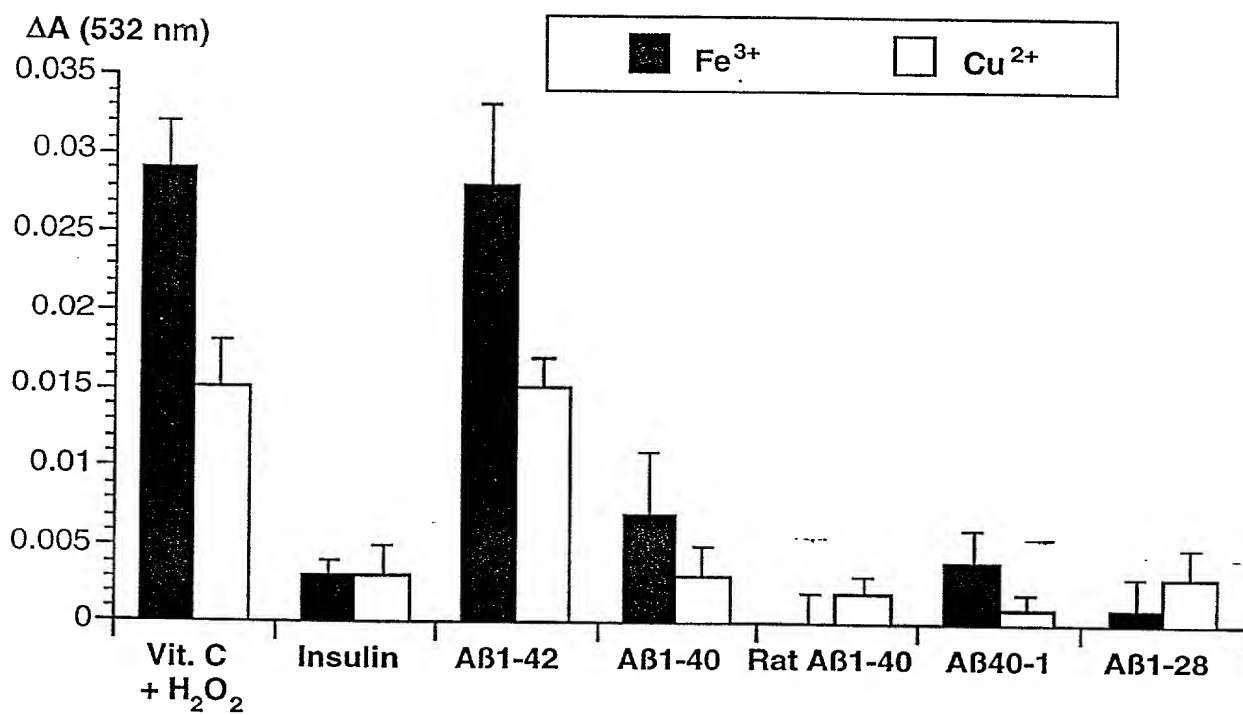


Fig. 16A

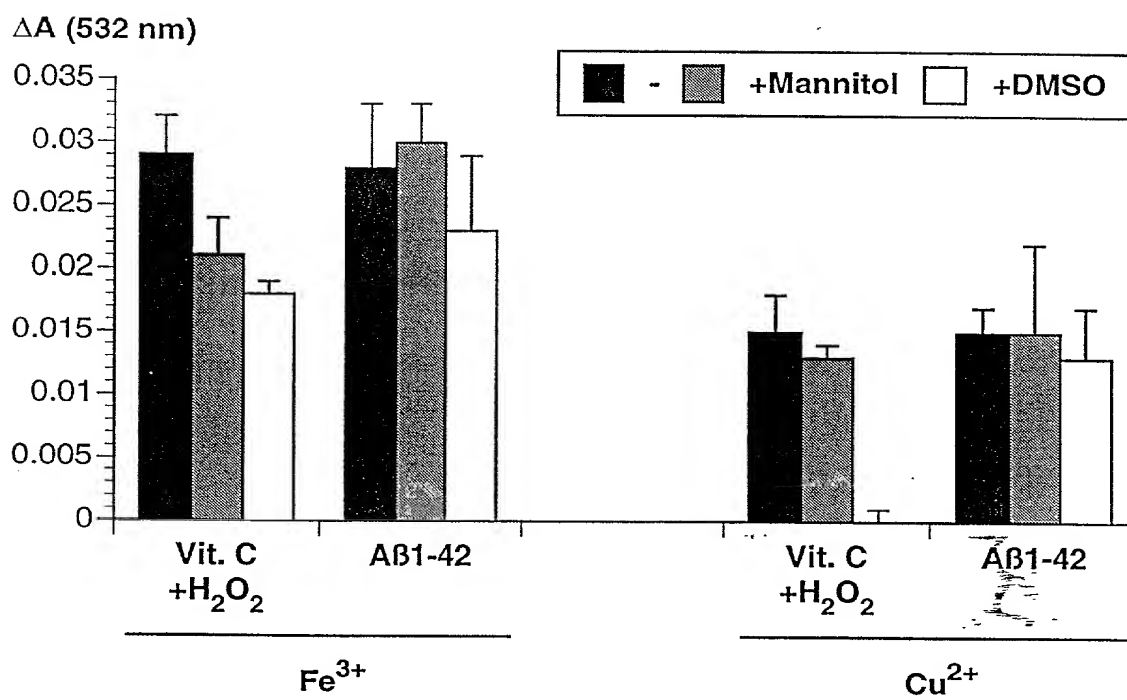


Fig. 16B

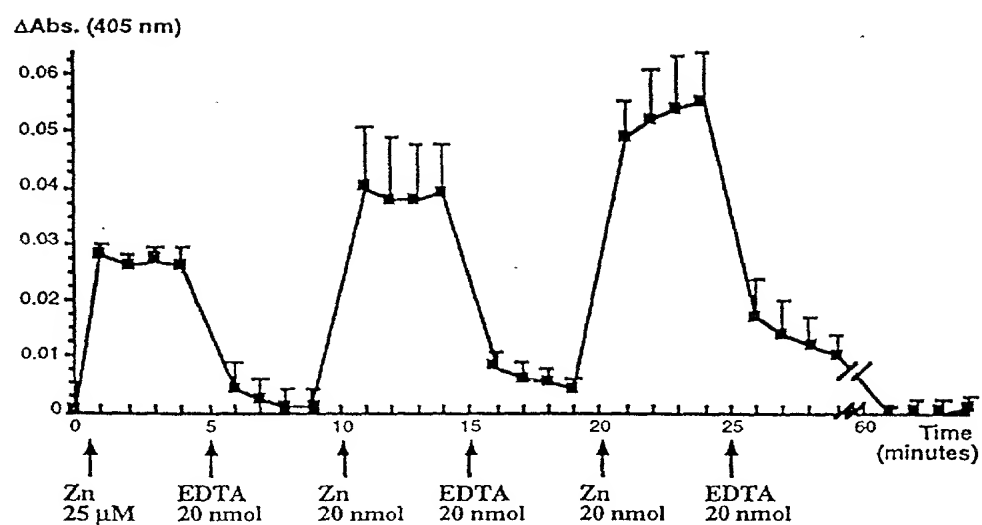


Fig. 17

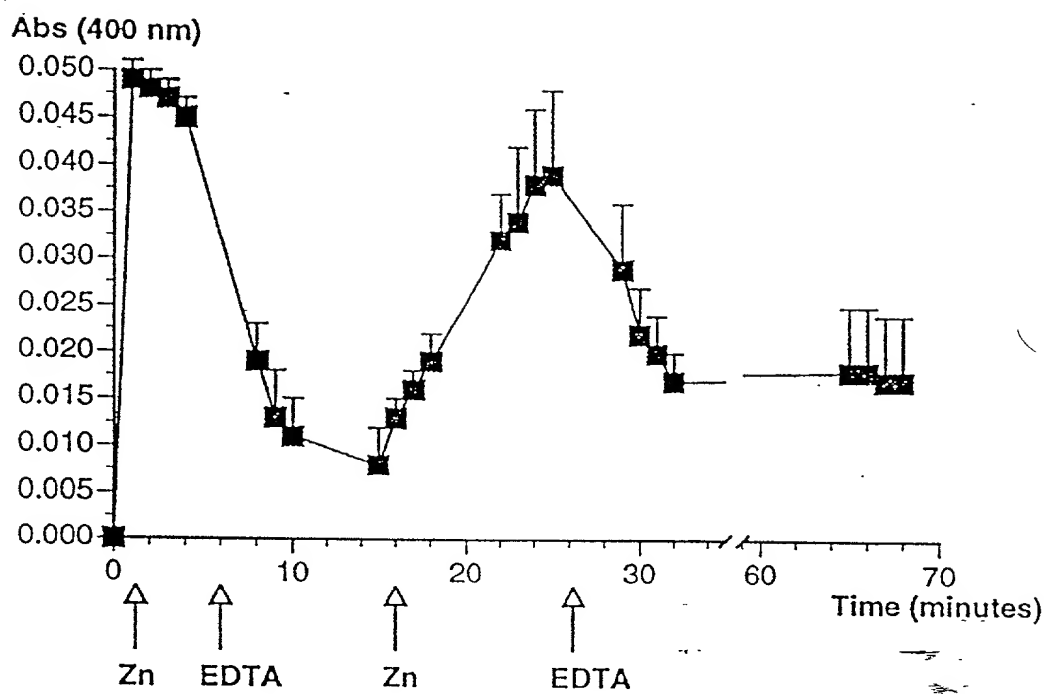


Fig. 18

TPEN (mM)

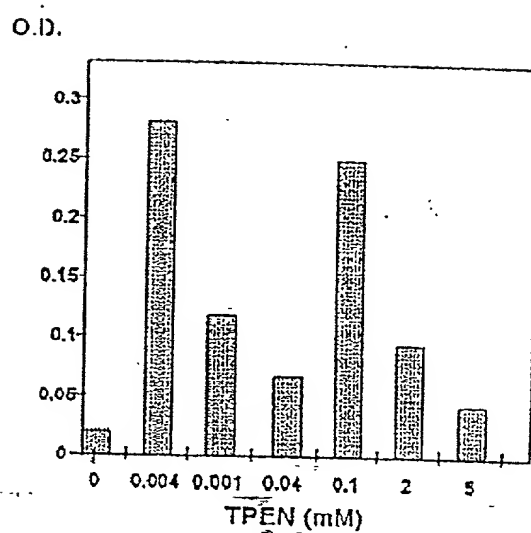
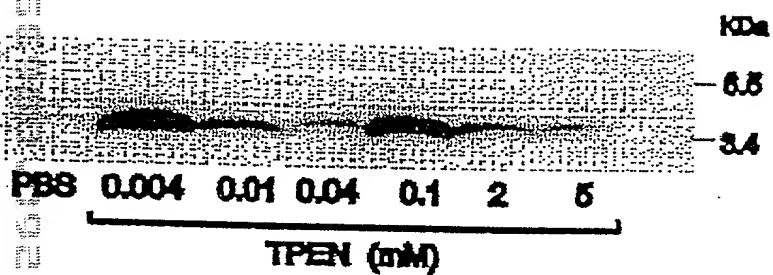


Fig. 19A

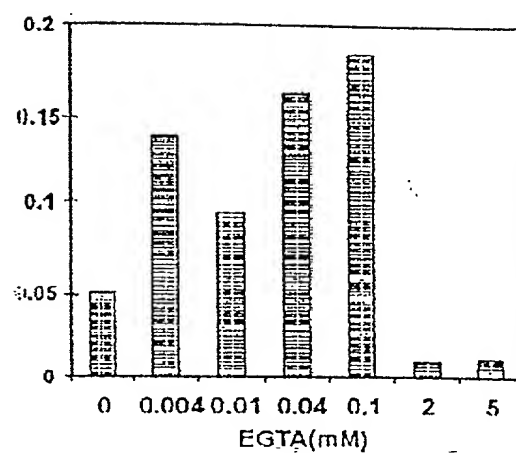
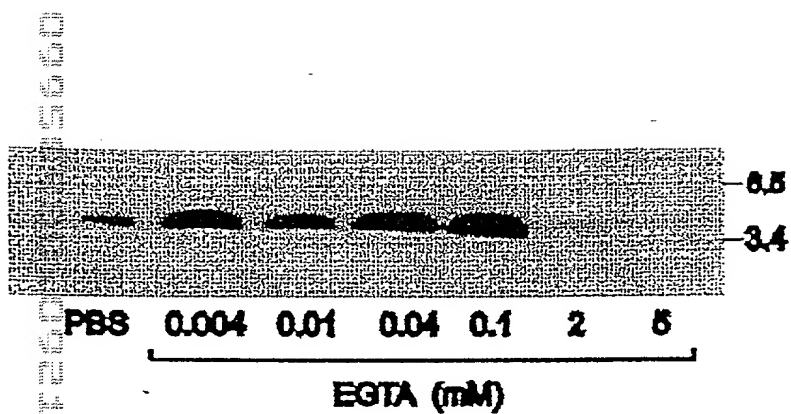


Fig. 19B

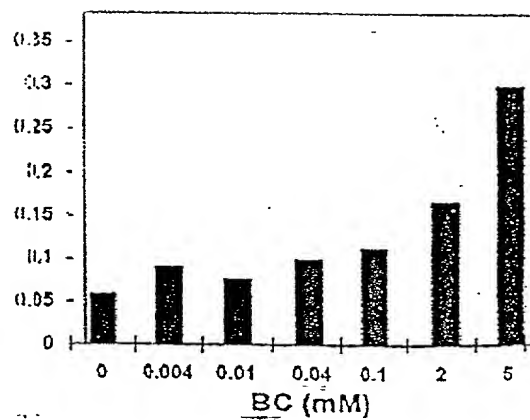
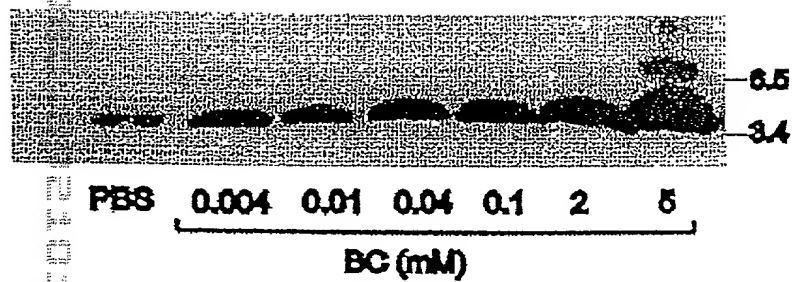
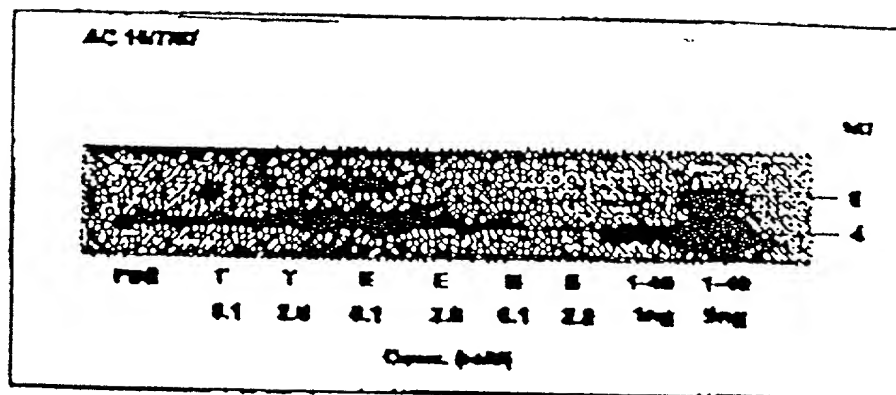


Fig. 19C



Age- matched control- (indicative gel)

Fig. 20A

C AD C AD C AD C AD C AD

TBS EDTA EGTA PEN TPEN

Young control vs AD, various chelators. 5mM

Fig. 20B

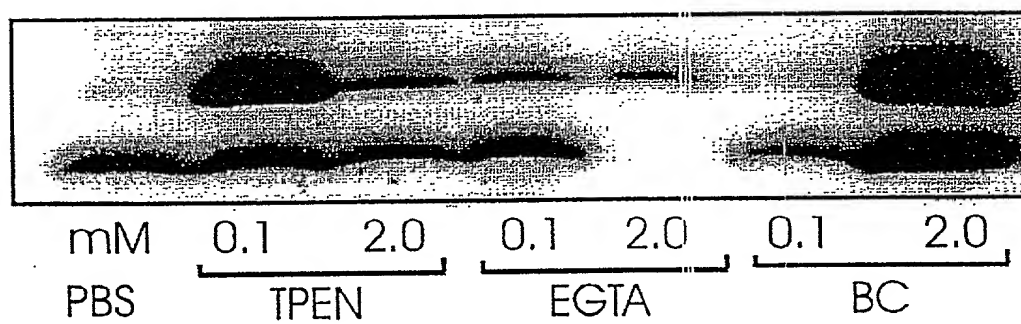


Fig. 21

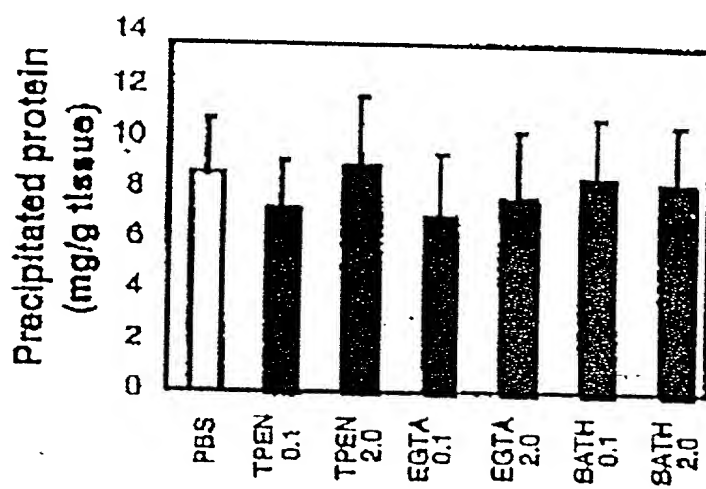


Fig. 22

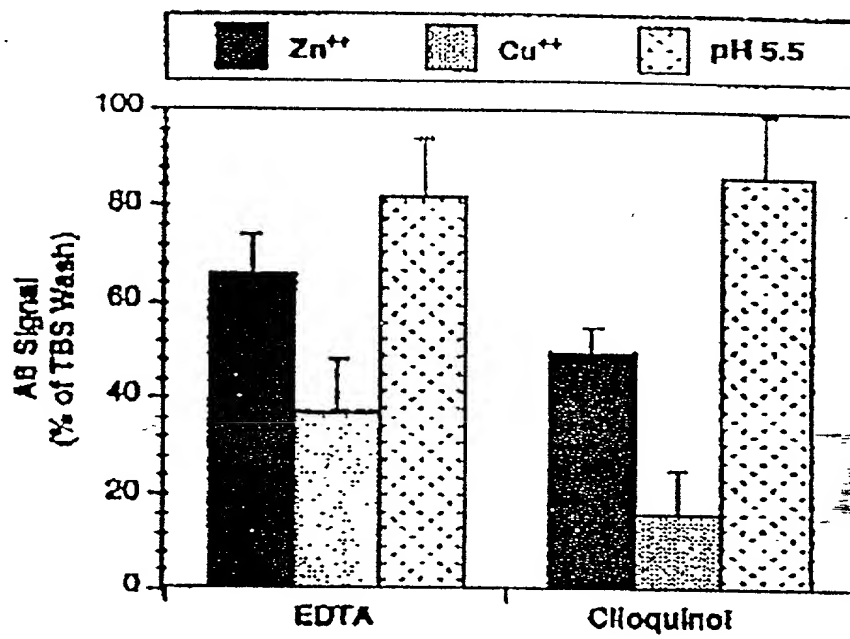
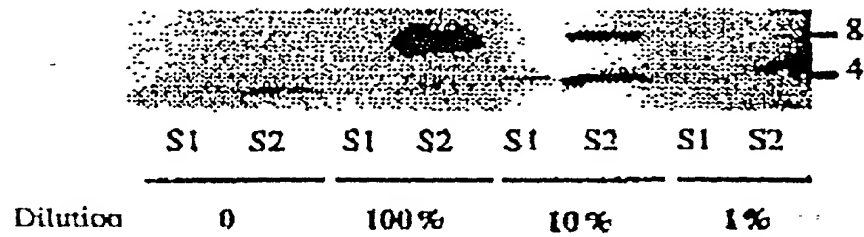


Fig. 23



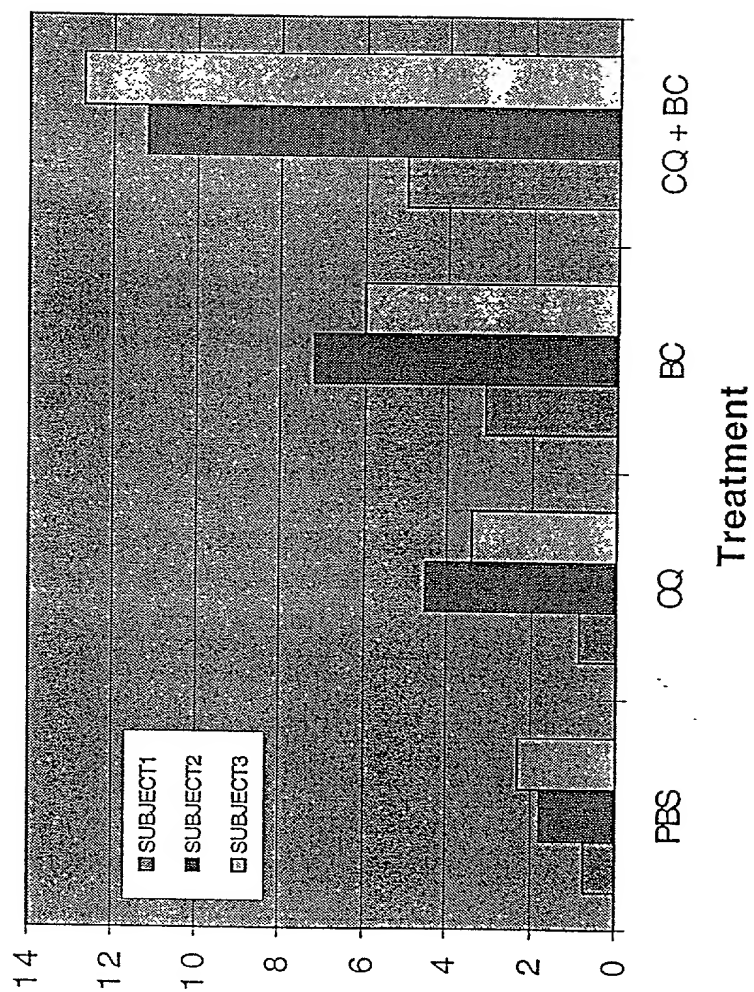
PBS	1%	10%	40%	70%	100%	
						1-40 1-40 8.5mg 2mg

Fig. 25A

Clioquinol concentration	Optical Density
0%	1.8
1%	3.8
10%	4.5
40%	5.8
70%	5.8
100%	4.5

Fig. 25B

Fig. 26



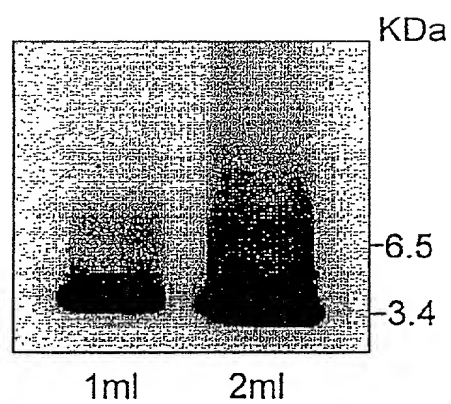


Fig. 27

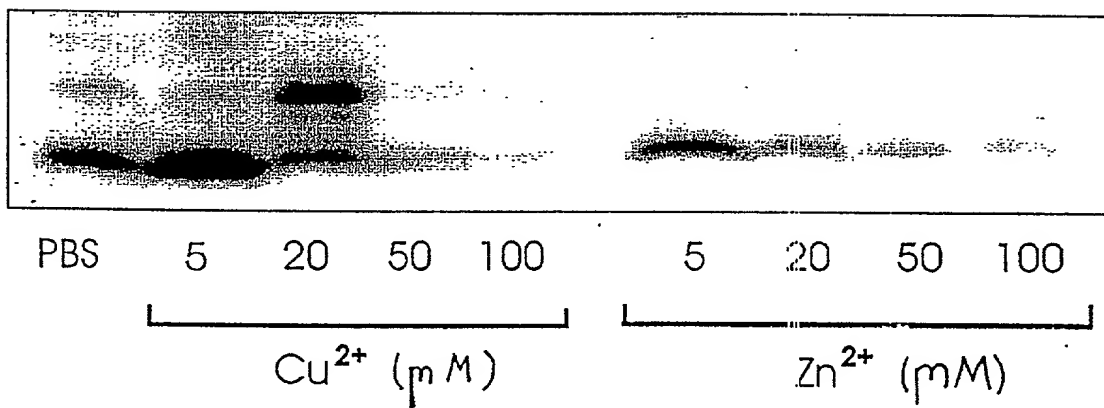


Fig. 28A

Alzheimer

mM

0.1 2.0 0.1 2.0 0.1 2.0 1ng 5ng

PBS TPEN EGTA BC 1-40

KDa

6.5

3.4

Aged Control

mM

0.1 2.0 0.1 2.0 0.1 2.0 1ng 5ng

PBS TPEN EGTA BC 1-40

KDa

6.5

3.4

Detailed description: The figure consists of two Western blot panels. The top panel is labeled 'Alzheimer' and the bottom panel is labeled 'Aged Control'. Each panel shows a series of lanes representing different treatments: PBS, TPEN (0.1 mM and 2.0 mM), EGTA (0.1 mM and 2.0 mM), BC (0.1 mM and 2.0 mM), and 1-40 (1 ng and 5 ng). Molecular weight markers are indicated on the right at 6.5 KDa and 3.4 KDa. In the Alzheimer panel, a prominent band is visible at approximately 3.4 KDa across all lanes, with a slight increase in intensity in the 1-40 lanes. In the Aged Control panel, a similar band is present at 3.4 KDa, but it is significantly less intense than in the Alzheimer panel. A faint band is also visible at approximately 6.5 KDa in the Aged Control panel, particularly in the 1-40 lanes.

Fig. 29A

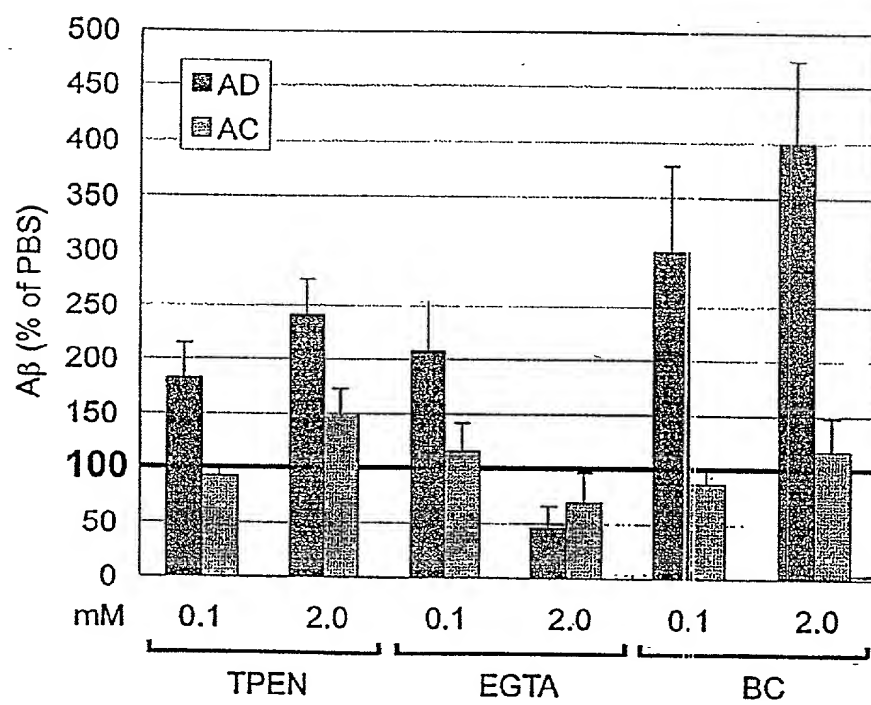


Fig. 29B

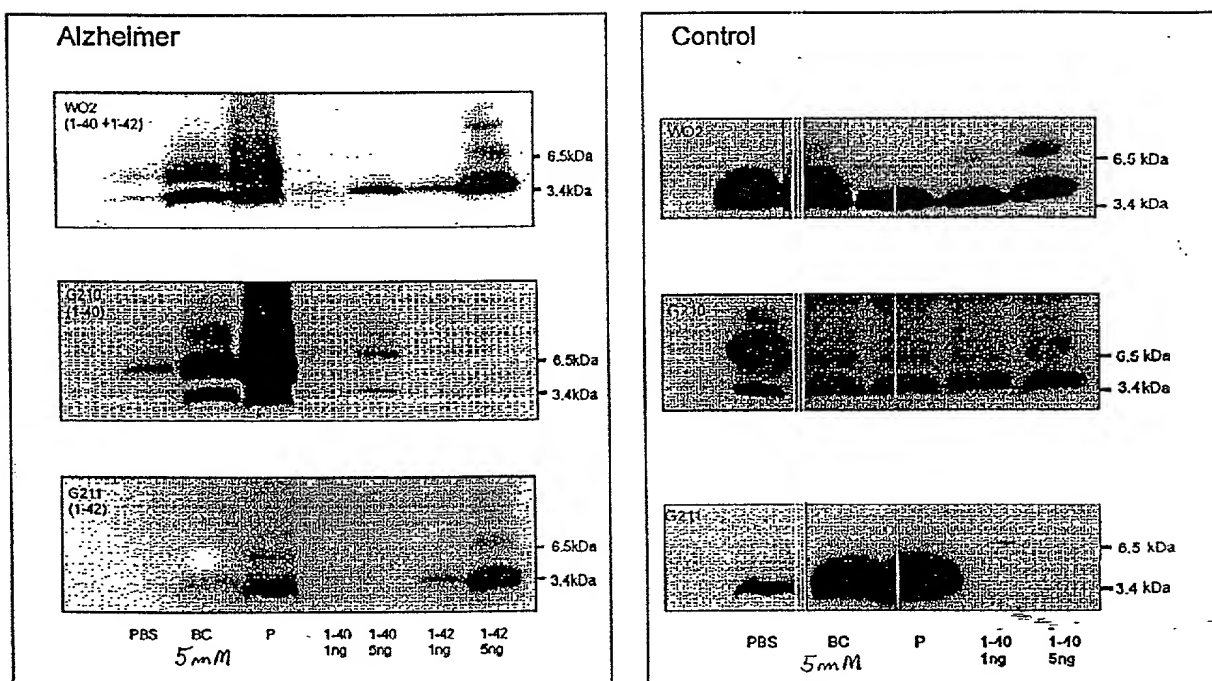
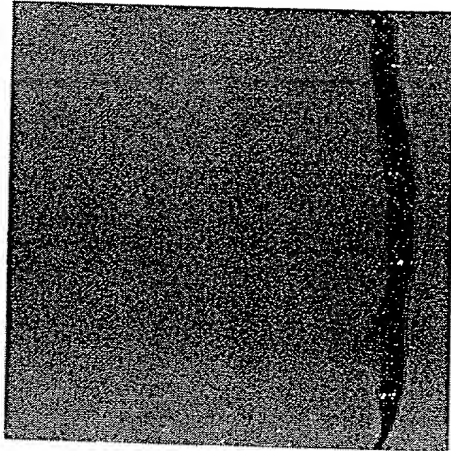


Fig. 30

TOP SECRET

AB1-40

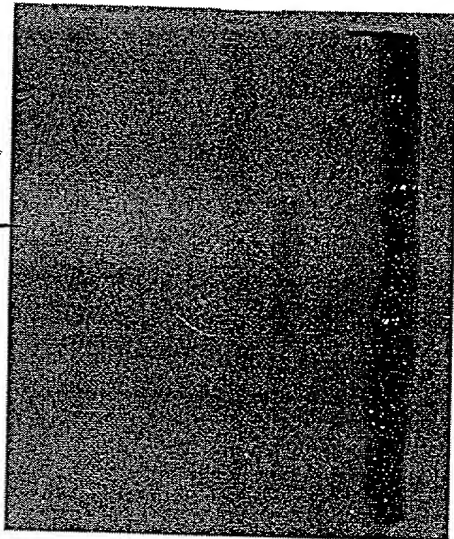
Metal	-	Cu	Cu	Fe	Fe
pH	7.4	7.4	6.6	7.4	6.6



Day 0

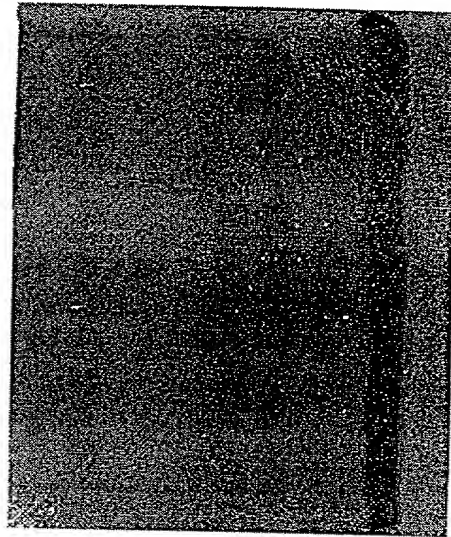
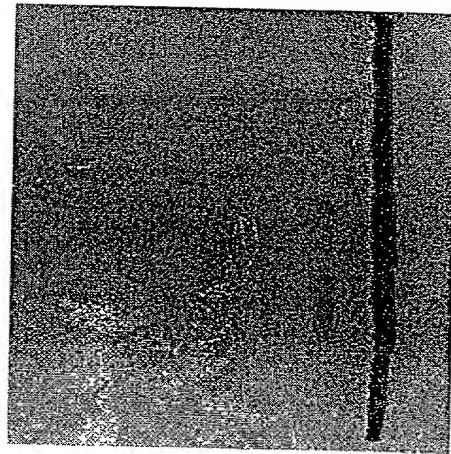
AB1-42

-	-	Cu	Cu	Fe	Fe
7.4	6.6	7.4	6.6	7.4	6.6



-21.5
-14.3
-6.4
-3.5

Day 3



-21.5
-14.3
-6.4
-3.5

Fig. 31A

Rat AB1-40

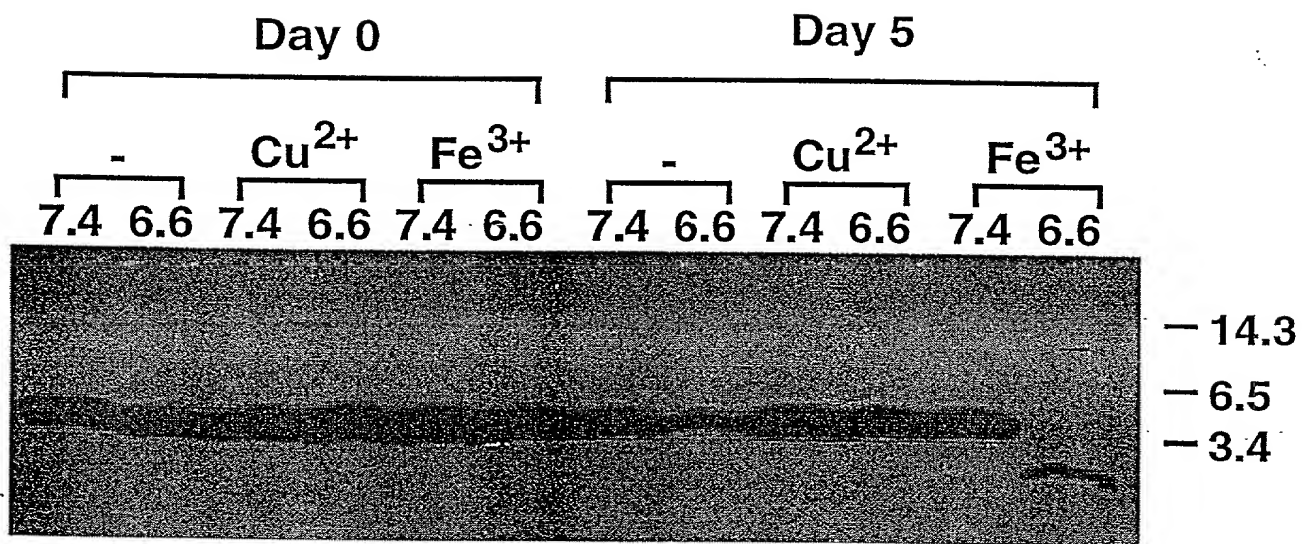


Fig. 31B

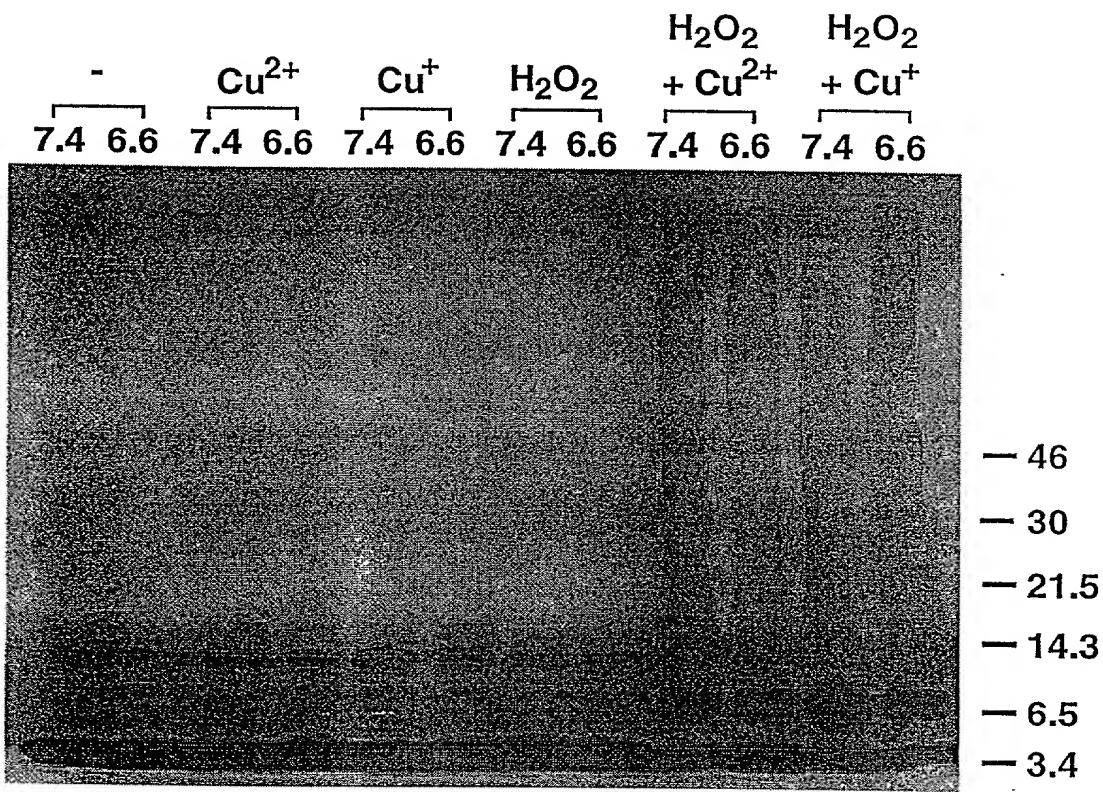


Fig. 32A

009560-0944

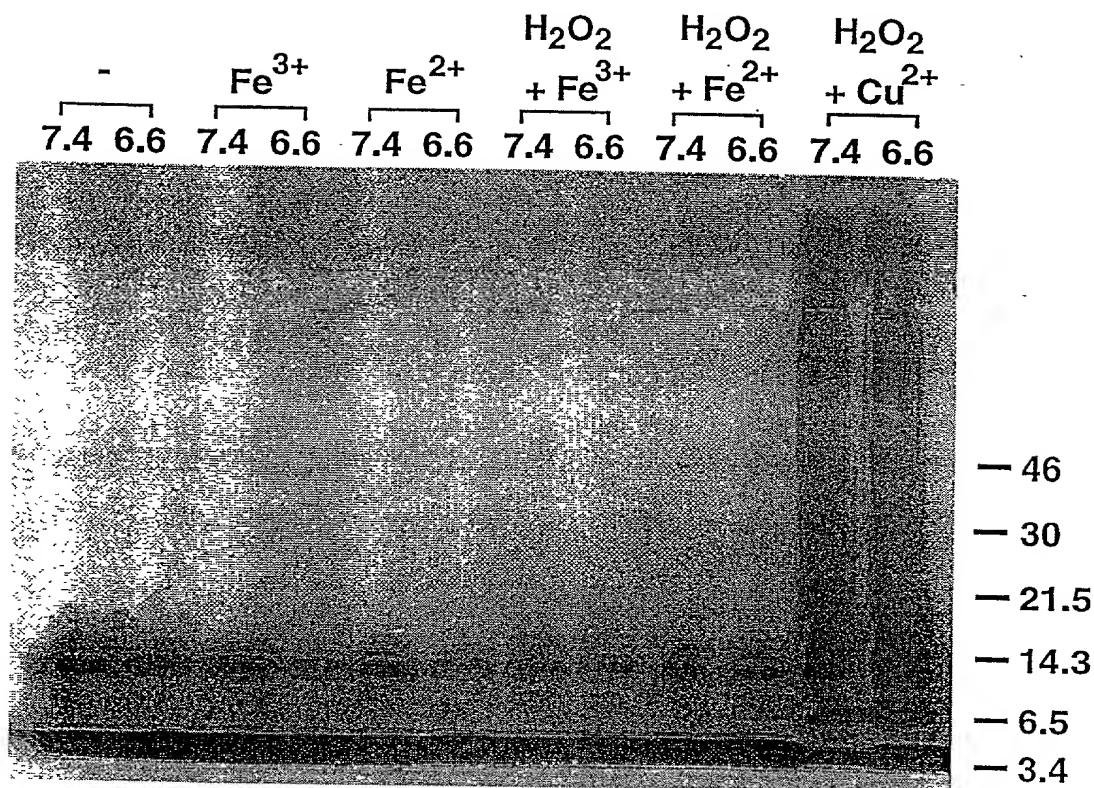


Fig. 32B

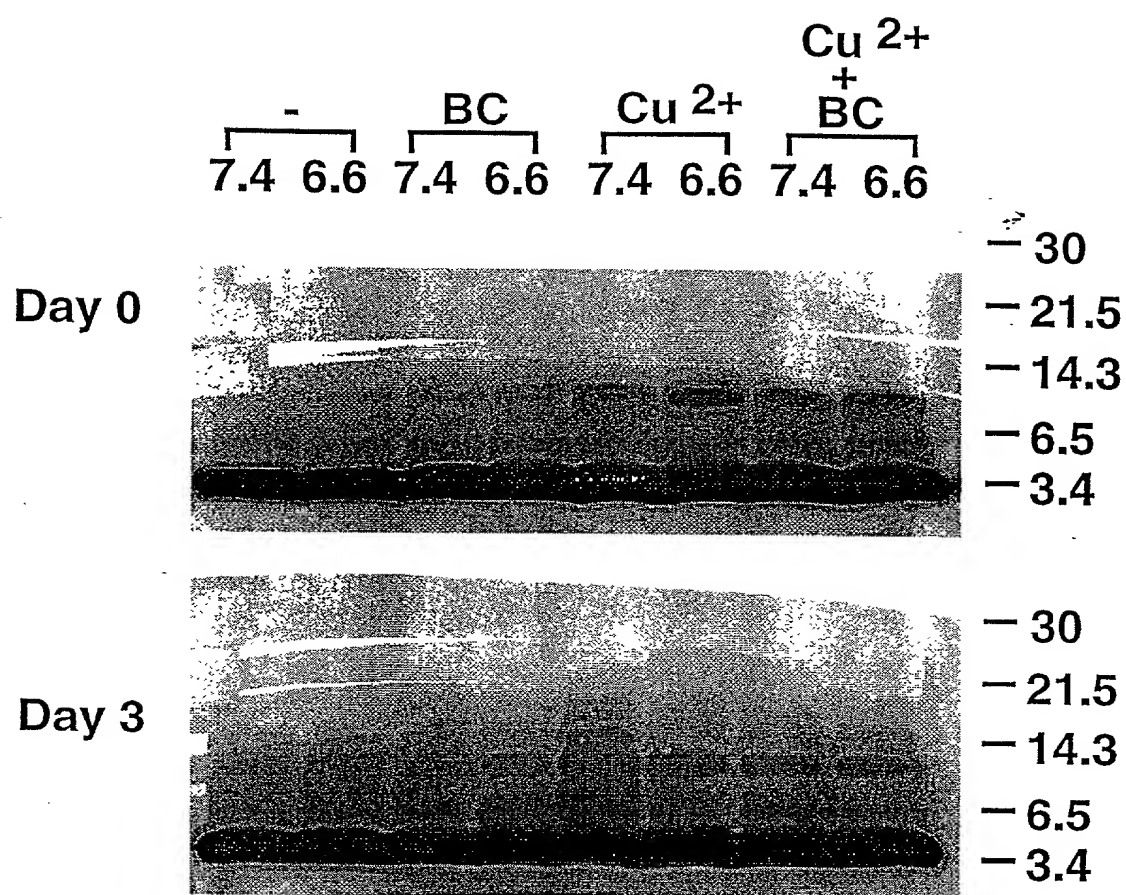


Fig. 32C

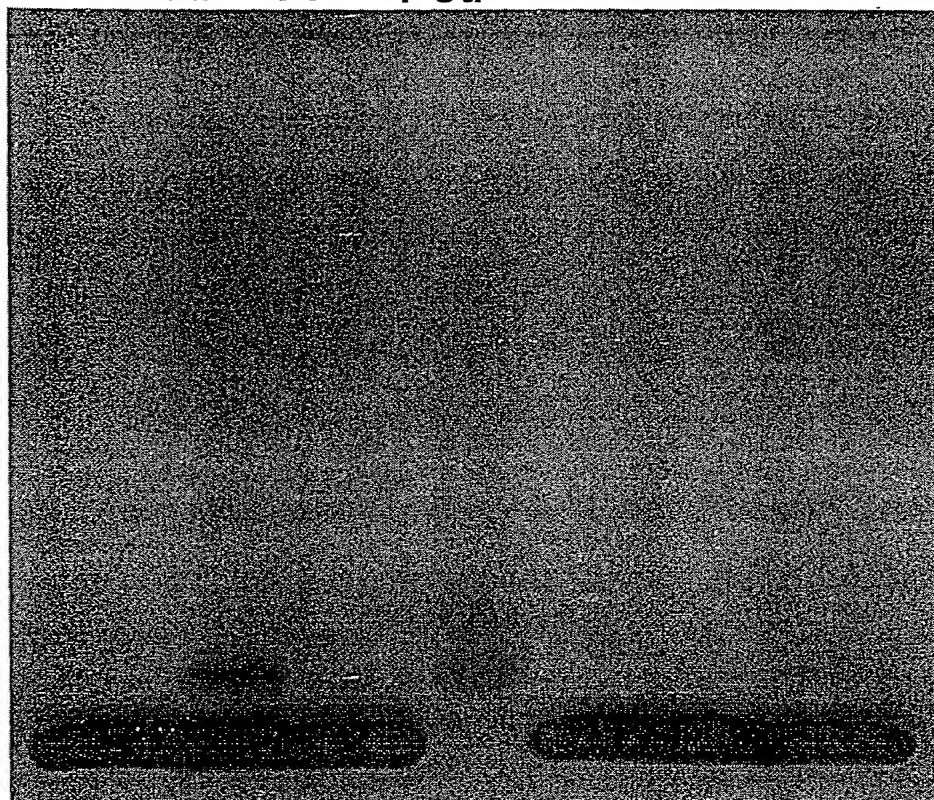
$$- \text{Cu}^{2+} \text{ Fe}^{3+} + \text{Cu}^{2+} \text{ H}_2\text{O}_2 \text{ Asc. acid} \text{ Fe}^{2+} \text{ H}_2\text{O}_2 + \text{TCEP} \text{ Cu}^{2+} \text{ TCEP}$$


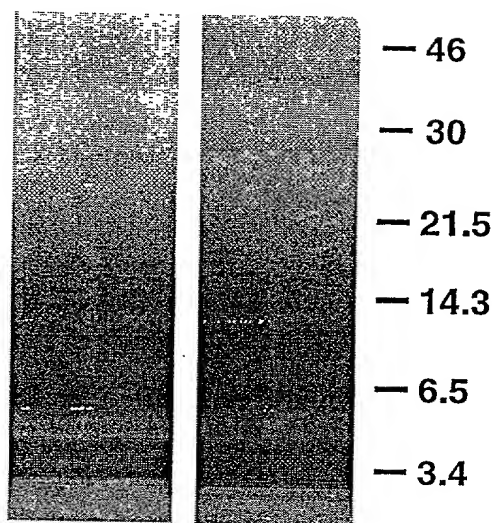
Fig. 33A

Fig. 33B

Polymerization
reaction

Urea

$AB_{1-42} + Cu^{2+}$
- 9 M
7.4 6.6 7.4 6.6



Polymerization
reaction

Urea

$AB_{1-42} + Cu^{2+} + H_2O_2$
- 4.5 M 9 M
7.4 6.6 7.4 6.6 7.4 6.6

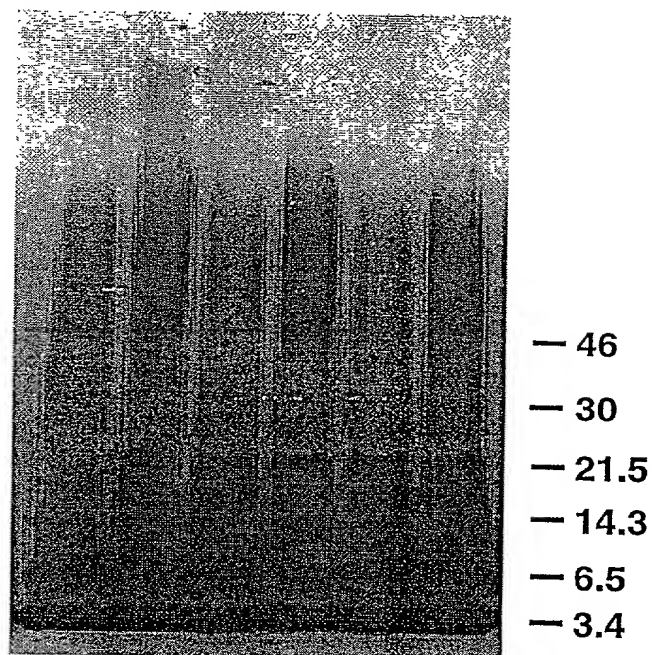


Fig. 34A

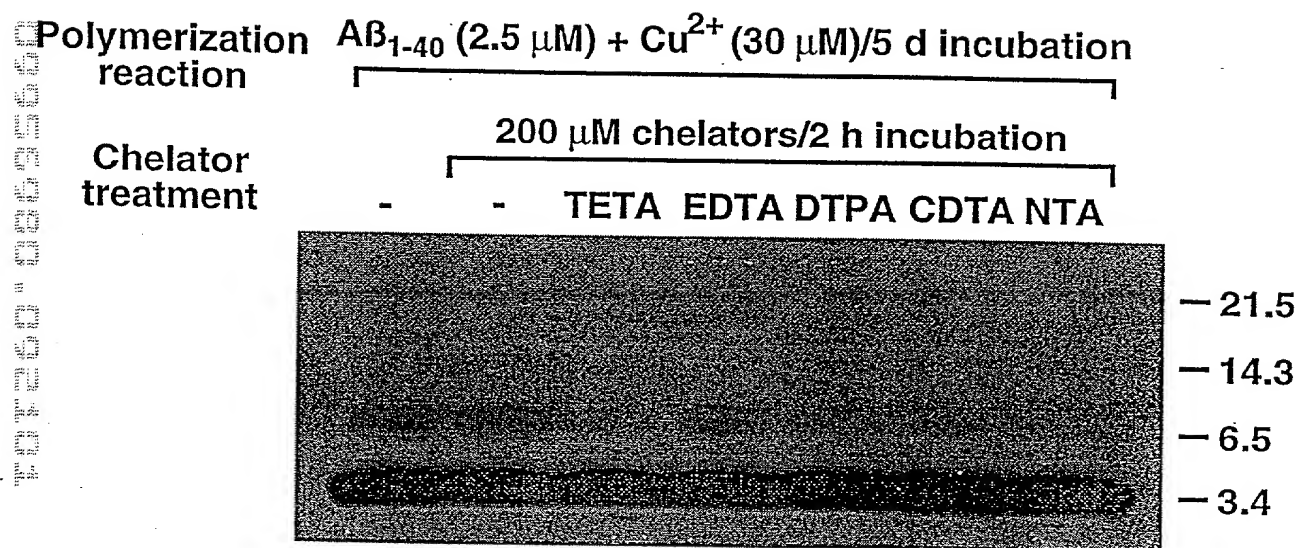


Fig. 34B

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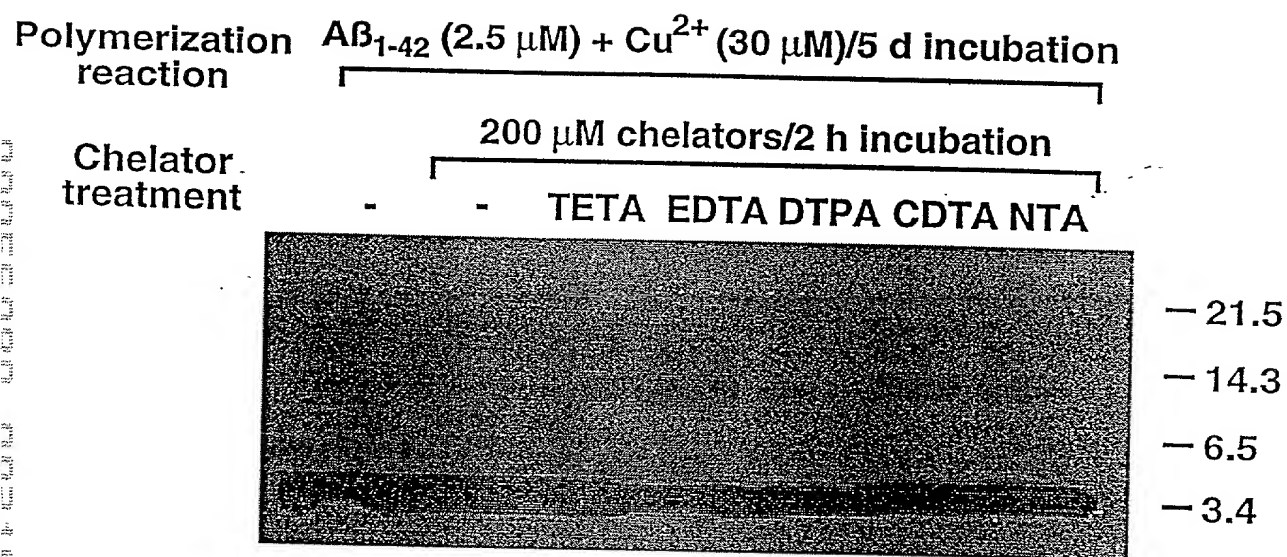


Fig. 34C

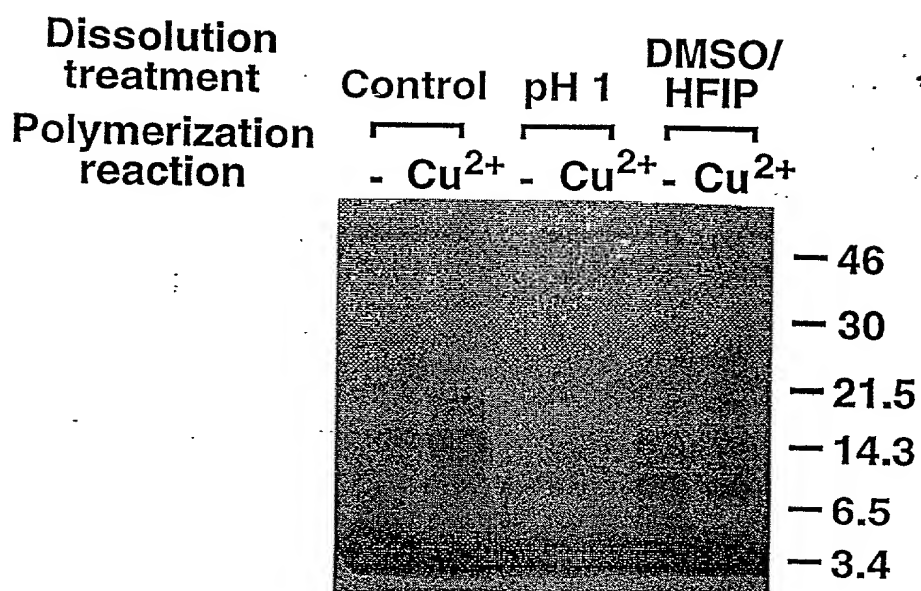


Fig. 340

095500-000000

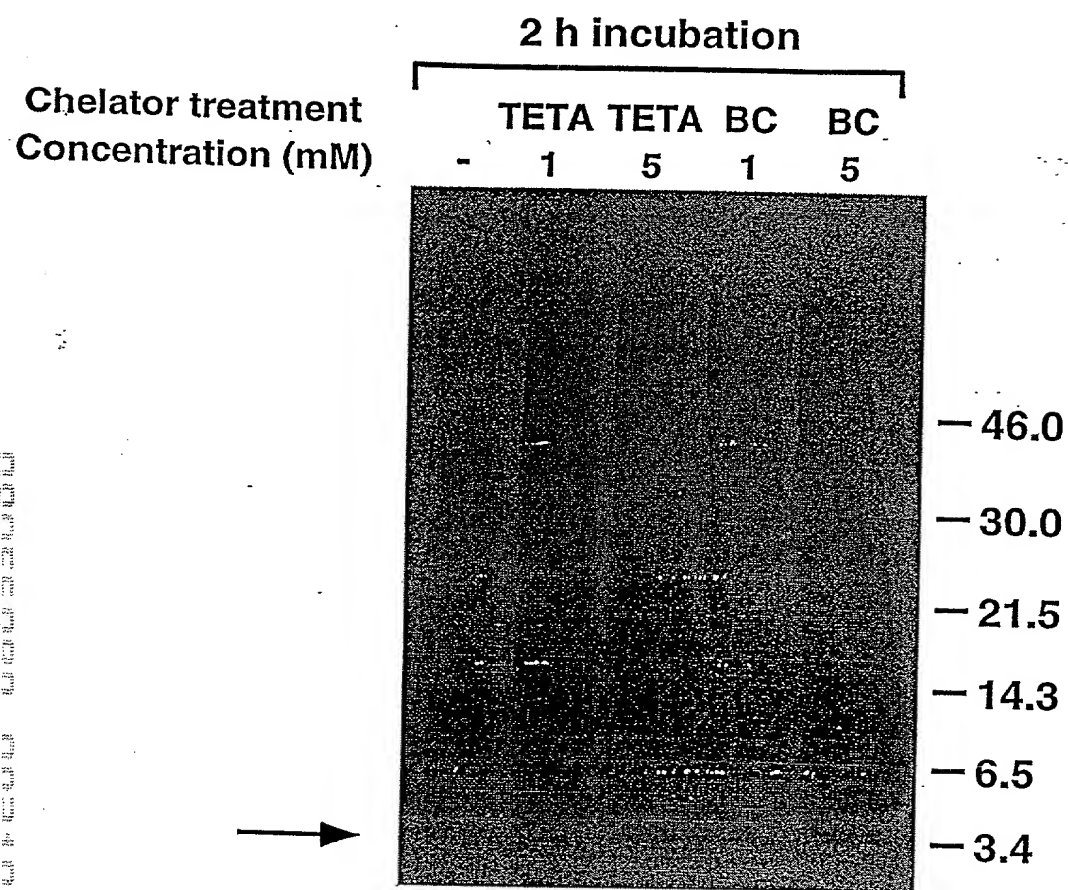


Fig. 34E